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OM protein - protein search, using sw model

Run on: March 18, 2004, 07:16:14 ; Search time 26.1305 Seconds  
(without alignments)  
98.874 Million cell updates/sec

Title: US-09-909-348-1  
Perfect score: 59  
Sequence: 1 CEGDSGGPFV 10

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 25895339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	59	100.0	10	9	US-09-909-348-1
2	59	100.0	10	9	US-09-909-122-1
3	59	100.0	10	13	US-10-050-692-1
4	59	100.0	10	13	US-10-050-688-1
5	59	100.0	10	12	US-09-904-090-2
6	59	100.0	12	13	US-10-050-611-2
7	59	100.0	23	9	US-09-777-328-8
8	59	100.0	23	9	US-09-904-090-3
9	59	100.0	23	13	US-10-050-692-6
10	59	100.0	23	13	US-10-050-611-3
11	59	100.0	23	13	US-10-050-611-4
12	59	100.0	23	13	US-10-050-688-5
13	59	100.0	23	13	US-10-050-688-6
14	59	100.0	25	9	US-09-909-348-5
15	59	100.0	25	9	US-09-909-122-5

16	59	100.0	25	13	US-10-050-692-5	Sequence 5, Appli
17	59	100.0	250	10	US-09-898-837A-45	Sequence 45, Appl
18	59	100.0	251	10	US-09-898-837A-41	Sequence 41, Appl
19	59	100.0	259	15	US-10-165-442-2	Sequence 2, Appli
20	59	100.0	259	15	US-10-165-442-4	Sequence 4, Appli
21	59	100.0	295	15	US-10-165-442-1	Sequence 1, Appli
22	59	100.0	295	15	US-10-165-442-3	Sequence 3, Appli
23	59	100.0	622	14	US-10-020-141-8	Sequence 8, Appli
24	59	100.0	622	14	US-10-017-631-2	Sequence 2, Appli
25	59	100.0	622	14	US-10-214-932-116	Sequence 116, App
26	59	100.0	622	14	US-10-172-712-29	Sequence 29, Appl
27	56	94.9	164	14	US-10-357-175-25	Sequence 25, Appl
28	56	94.9	164	15	US-10-455-720-25	Sequence 25, Appl
29	56	94.9	236	10	US-09-898-837A-44	Sequence 44, Appl
30	56	94.9	304	15	US-10-099-322-139	Sequence 139, App
31	56	94.9	304	15	US-10-044-564-139	Sequence 139, App
32	56	94.9	305	15	US-10-108-260A-3002	Sequence 3002, Ap
33	56	94.9	376	9	US-09-820-002-2	Sequence 2, Appli
34	56	94.9	376	14	US-10-374-031-2	Sequence 2, Appli
35	56	94.9	380	12	US-10-235-789-2	Sequence 2, Appli
36	56	94.9	416	15	US-10-099-322-138	Sequence 138, App
37	56	94.9	417	9	US-09-820-002-4	Sequence 4, Appli
38	56	94.9	417	10	US-09-776-191-68	Sequence 68, Appl
39	56	94.9	417	14	US-10-073-060-2	Sequence 2, Appli
40	56	94.9	417	14	US-10-205-823-178	Sequence 178, App
41	56	94.9	417	14	US-10-274-031-4	Sequence 4, Appli
42	56	94.9	417	15	US-10-099-322-40	Sequence 40, Appl
43	56	94.9	417	15	US-10-099-322-136	Sequence 136, App
44	56	94.9	417	15	US-10-295-027-1377	Sequence 1377, Ap
45	56	94.9	417	15		

ALIGNMENTS

RESULT 1  
US-09-909-348-1  
; Sequence 1, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowthier, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; FILE REFERENCE: Of The No. US20020042373A1-Proteolytically Activated Thrombin R  
; CURRENT APPLICATION NUMBER: 3033.1003-001  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-1

Query Match 100.0%; Score 59; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CEGDSGGPFV 10  
| | | | | | | | | |  
DB 1 CEGDSGGPFV 10

RESULT 2  
US-09-909-122-1  
; Sequence 1, Application US/09909122

; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-122-1

Query Match 100.0%; Score 59; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 3

US-10-050-692-1  
; Sequence 1, Application US/10050692  
; Publication No. US20020182205A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
; FILE REFERENCE: 3033.1002-004  
; CURRENT APPLICATION NUMBER: US/10/050,692  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,122  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: fragment of human prothrombin  
US-10-050-692-1

Query Match 100.0%; Score 59; DB 13; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 4

US-10-050-688-1

; Sequence 1, Application US/10050688  
; Publication No. US20020198154A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH  
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN  
; TITLE OF INVENTION: RECEPTOR  
; FILE REFERENCE: 3033.1003-004  
; CURRENT APPLICATION NUMBER: US/10/050,688  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,348  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: peptide fragment of thrombin  
US-10-050-688-1

Query Match 100.0%; Score 59; DB 13; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 5

US-09-904-090-2  
; Sequence 2, Application US/09904090  
; Patent No. US20020061852A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell  
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED  
; TITLE OF INVENTION: PEPTIDES  
; FILE REFERENCE: 3033.1000-001  
; CURRENT APPLICATION NUMBER: US/09/904,090  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: US 60/217,583  
; PRIOR FILING DATE: 2000-07-12  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 12  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Polypeptide, fragment of thrombin  
US-09-904-090-2

Query Match 100.0%; Score 59; DB 9; Length 12;  
Best Local Similarity 100.0%; Pred. No. 0.0091;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 3 CEGDSGGPFV 12

## RESULT 6

US-10-050-611-2  
; Sequence 2, Application US/10050611  
; Publication No. US20020187933A1  
; GENERAL INFORMATION:

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; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of thrombin
US-10-050-611-2

Query Match      100.0%; Score 59; DB 13; Length 12;
Best Local Similarity 100.0%; Pred.No. 0.0091;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10
Db 3 CEGDSGGPFV 12

RESULT 7
US-09-777-328-8
; Sequence 8, Application US/09777328
; Patent No. US200200323141
; GENERAL INFORMATION:
; APPLICANT: CAREY, DARRELL H.
; APPLICANT: RAMAKRISHNAN, SHYAM
; TITLE OF INVENTION: SYNTHETIC PEPTIDE NEUTROPHIL CELL CHEMOTACTIC AGENTS
; FILE REFERENCE: CHEP:002
; CURRENT APPLICATION NUMBER: US/09/777,328
; CURRENT FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 08/330,594
; PRIOR FILING DATE: 1994-10-28
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
US-09-777-328-8

Query Match      100.0%; Score 59; DB 9; Length 23;
Best Local Similarity 100.0%; Pred.No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10
Db 14 CEGDSGGPFV 23

RESULT 8
US-09-904-090-3
; Sequence 3, Application US/09904090
; Patent No. US20020061852A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-001
; CURRENT APPLICATION NUMBER: US/09/904,090
; CURRENT FILING DATE: 2001-07-12
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; PRIOR APPLICATION NUMBER: US 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polypeptide, fragment of thrombin
US-09-904-090-3

Query Match      100.0%; Score 59; DB 9; Length 23;
Best Local Similarity 100.0%; Pred.No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10
Db 14 CEGDSGGPFV 23

RESULT 9
US-10-050-692-6
; Sequence 6, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinping
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-692-6

Query Match      100.0%; Score 59; DB 13; Length 23;
Best Local Similarity 100.0%; Pred.No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10
Db 14 CEGDSGGPFV 23

RESULT 10
US-10-050-611-3
; Sequence 3, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
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; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of thrombin
US-10-050-611-3

Query Match      100.0%; Score 59; DB 13; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CEGDSGGPFV 10
DB      14 CEGDSGGPFV 23

RESULT 11
US-10-050-611-4
; Sequence 4, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: 23
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-611-4

Query Match      100.0%; Score 59; DB 13; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CEGDSGGPFV 10
DB      14 CEGDSGGPFV 23

RESULT 12
US-10-050-688-5
; Sequence 5, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
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; TITLE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
US-10-050-688-5

Query Match      100.0%; Score 59; DB 13; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CEGDSGGPFV 10
DB      14 CEGDSGGPFV 23

RESULT 13
US-10-050-688-6
; Sequence 6, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; TITLE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: CONH2
US-10-050-688-6

Query Match      100.0%; Score 59; DB 13; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CEGDSGGPFV 10
DB      14 CEGDSGGPFV 23

RESULT 14
US-09-909-348-5
; Sequence 5, Application US/09909348
; Patent No. US20020042373A1
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; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bezzmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-5

Query Match 100.0%; Score 59; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 0.018;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 16 CEGDSGGPFV 25

RESULT 15  
US-09-909-122-5  
; Sequence 5, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jiping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-122-5

Query Match 100.0%; Score 59; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 0.018;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 16 CEGDSGGPFV 25

Search completed: March 18, 2004, 07:24:51  
Job time : 27.1905 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 18, 2004, 07:16:14 ; Search time 26.1905 Seconds  
(without alignments)  
98.874 Million cell updates/sec

Title: US-09-909-348-2  
Perfect score: 50  
Sequence: 1 CXGDSGGPXV 10

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	47	94.0	54	10 US-09-860-739-5	Sequence 5, Appli
2	47	94.0	237	10 US-09-860-739-1	Sequence 1, Appli
3	47	94.0	237	14 US-10-128-966-7	Sequence 7, Appli
4	47	94.0	252	14 US-10-148-671-21	Sequence 21, Appli
5	47	94.0	261	9 US-09-786-294-10	Sequence 10, Appli
6	47	94.0	261	9 US-09-822-827-946	Sequence 946, App
7	47	94.0	261	9 US-09-963-896-6	Sequence 6, Appli
8	47	94.0	261	9 US-09-907-402-1	Sequence 1, Appli
9	47	94.0	261	9 US-09-895-793-946	Sequence 946, App
10	47	94.0	261	14 US-10-131-241-62	Sequence 62, Appli
11	47	94.0	261	14 US-10-461-787-10	Sequence 10, Appli
12	47	94.0	261	15 US-10-298-965-18	Sequence 18, Appli
13	47	94.0	261	15 US-10-012-697-1558	Sequence 1558, Ap
14	47	94.0	261	15 US-10-341-434-34	Sequence 34, Appli
15	47	94.0	261	15 US-10-341-434-41	Sequence 41, Appli

## ALIGNMENTS

RESULT 1  
US-09-860-739-5  
; Sequence 5, Application US/09860739  
; Publication No. US20030166036A1  
; GENERAL INFORMATION:  
; APPLICANT: Hybritech Incorporated  
; APPLICANT: Mikolajczyk, Harry  
; APPLICANT: Rittenhouse, Stephen  
; TITLE OF INVENTION: A Protease and an Aminopeptidase Associated with Development of  
; FILE REFERENCE: 2024-451  
; CURRENT APPLICATION NUMBER: US/09/860,739  
; CURRENT FILING DATE: 2001-05-18  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 5  
; LENGTH: 54  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-860-739-5

Query Match 94.0%; Score 47; DB 10; Length 54;  
Best Local Similarity 80.0%; Pred. No. 1.2;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CXGDSGGPXV 10  
Db 2 CSGDSGGPLV 11

RESULT 2  
US-09-860-739-1  
; Sequence 1, Application US/09860739  
; Publication No. US20030166036A1  
; GENERAL INFORMATION:  
; APPLICANT: Hybritech Incorporated  
; APPLICANT: Mikolajczyk, Stephen  
; APPLICANT: Rittenhouse, Harry

Sequence 78, Appli  
Sequence 358, App  
Sequence 2, Appli  
Sequence 14, Appli  
Sequence 97, Appli  
Sequence 17, Appli  
Sequence 96, Appli  
Sequence 61, Appli  
Sequence 218, App  
Sequence 61, Appli  
Sequence 11, Appli  
Sequence 6, Appli  
Sequence 2, Appli  
Sequence 6, Appli  
Sequence 4, Appli  
Sequence 8, Appli  
Sequence 947, App  
Sequence 947, App  
Sequence 6, Appli  
Sequence 1, Appli  
Sequence 2, Appli  
Sequence 2, Appli  
Sequence 16, Appli  
Sequence 2, Appli

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15 US-10-245-871-358  
15 US-10-378-449-2  
15 US-10-298-965-14  
15 US-10-051-874-97  
15 US-10-148-671-17  
15 US-10-051-874-96  
15 US-10-028-248A-61  
15 US-10-074-978A-218  
15 US-10-107-782-61  
9 US-09-755-100-11  
15 US-10-298-965-11  
9 US-09-874-198-6  
9 US-09-874-238-6  
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14 US-10-183-992-4  
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1019 14 US-10-183-992-8  
1079 9 US-09-822-827-947  
9 US-09-895-793-947  
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10 9 US-09-909-348-1  
10 9 US-09-909-348-2  
10 9 US-09-909-122-1  
10 9 US-09-909-122-2  
10 13 US-10-050-692-1  
10 13 US-10-050-692-2  
10 13 US-10-050-688-1  
10 13 US-10-050-688-2  
12 9 US-09-879-792-16  
12 9 US-09-904-090-2

16 47 94.0 261  
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19 47 94.0 262  
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29 47 94.0 679  
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31 47 94.0 1019  
32 47 94.0 1019  
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44 46 92.0 12  
45 46 92.0 12

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; TITLE OF INVENTION: A Protease and an Aminopeptidase Associated with Development of B
; TITLE OF INVENTION: Prostatic Hyperplasia (BPH)
; FILE REFERENCE: 2024-451
; CURRENT APPLICATION NUMBER: US/09/860,739
; CURRENT FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-860-739-1

Query Match          94.0%; Score 47; DB 10; Length 237;
Best Local Similarity 80.0%; Pred. No. 4.6;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      185 CSGDSGGPLV 194

RESULT 3
US-10-128-966-7
; Sequence 7, Application US/10128966
; Publication No. US20030113743A1
; GENERAL INFORMATION:
; APPLICANT: Slawin, K.M.
; APPLICANT: Tindall, D.J.
; APPLICANT: Young, C.Y.F.
; APPLICANT: Saedi, M.S.
; APPLICANT: Kumar, A.
; APPLICANT: Rittenhouse, H.G.
; APPLICANT: Wolfert, R.L.
; TITLE OF INVENTION: Method for detection of micrometastatic
; TITLE OF INVENTION: prostate cancer.
; FILE REFERENCE: 675.001US1
; CURRENT APPLICATION NUMBER: US/10/128,966
; CURRENT FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: US/08/843,076D
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 08/759,354
; PRIOR FILING DATE: 1996-11-14
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-128-966-7

Query Match          94.0%; Score 47; DB 14; Length 237;
Best Local Similarity 80.0%; Pred. No. 4.6;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      185 CSGDSGGPLV 194

RESULT 4
US-10-148-671-21
; Sequence 21, Application US/10148671
; Publication No. US20030186419A1
; GENERAL INFORMATION:
; APPLICANT: Jensenius, Jens Christian
; APPLICANT: Thiel, Steffen
; TITLE OF INVENTION: NASP-3, A complement-fixing enzyme, and uses for it
; FILE REFERENCE: 10/148,671
; CURRENT APPLICATION NUMBER: US/10/148,671
; CURRENT FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: PCT/DK00/00659
; PRIOR FILING DATE: 2000-11-30

; TITLE OF INVENTION: A Protease and an Aminopeptidase Associated with Development of B
; TITLE OF INVENTION: Prostatic Hyperplasia (BPH)
; FILE REFERENCE: 2024-451
; CURRENT APPLICATION NUMBER: US/09/860,739
; CURRENT FILING DATE: 2001-05-18
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-860-739-1

Query Match          94.0%; Score 47; DB 10; Length 237;
Best Local Similarity 80.0%; Pred. No. 4.6;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      185 CSGDSGGPLV 194

RESULT 3
US-10-128-966-7
; Sequence 7, Application US/10128966
; Publication No. US20030113743A1
; GENERAL INFORMATION:
; APPLICANT: Slawin, K.M.
; APPLICANT: Tindall, D.J.
; APPLICANT: Young, C.Y.F.
; APPLICANT: Saedi, M.S.
; APPLICANT: Kumar, A.
; APPLICANT: Rittenhouse, H.G.
; APPLICANT: Wolfert, R.L.
; TITLE OF INVENTION: Method for detection of micrometastatic
; TITLE OF INVENTION: prostate cancer.
; FILE REFERENCE: 675.001US1
; CURRENT APPLICATION NUMBER: US/10/128,966
; CURRENT FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: US/08/843,076D
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: US 08/759,354
; PRIOR FILING DATE: 1996-11-14
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 237
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-128-966-7

Query Match          94.0%; Score 47; DB 14; Length 237;
Best Local Similarity 80.0%; Pred. No. 4.6;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      185 CSGDSGGPLV 194

RESULT 4
US-10-148-671-21
; Sequence 21, Application US/10148671
; Publication No. US20030186419A1
; GENERAL INFORMATION:
; APPLICANT: Jensenius, Jens Christian
; APPLICANT: Thiel, Steffen
; TITLE OF INVENTION: NASP-3, A complement-fixing enzyme, and uses for it
; FILE REFERENCE: 10/148,671
; CURRENT APPLICATION NUMBER: US/10/148,671
; CURRENT FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: PCT/DK00/00659
; PRIOR FILING DATE: 2000-11-30
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; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Homo sapiens (fig. 10, humASP-1)
US-10-148-671-21

Query Match          94.0%; Score 47; DB 14; Length 252;
Best Local Similarity 80.0%; Pred. No. 4.9;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      195 CAGDSGGPMV 204

RESULT 5
US-09-796-294-10
; Sequence 10, Application US/09796294
; Patent No. US20020037581A1
; GENERAL INFORMATION:
; APPLICANT: O'Brien, Timothy J.
; APPLICANT: Underwood, Lowell J.
; TITLE OF INVENTION: Extracellular Serine Protease
; FILE REFERENCE: D6020CIP3
; CURRENT APPLICATION NUMBER: US/09/796,294
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: US 09/618,259
; PRIOR FILING DATE: 2000-07-18
; NUMBER OF SEQ ID NOS: 72
; SEQ ID NO 10
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Amino acid sequence of Prostate Specific Antigen
; OTHER INFORMATION: (HPSA); accession no. P07288
US-09-796-294-10

Query Match          94.0%; Score 47; DB 9; Length 261;
Best Local Similarity 80.0%; Pred. No. 5.1;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
Db      209 CSGDSGGPLV 218

RESULT 6
US-09-822-827-946
; Sequence 946, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 946
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-822-827-946

Query Match          94.0%; Score 47; DB 9; Length 261;
Best Local Similarity 80.0%; Pred. No. 5.1;
Matches      8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 CXGDSGGPXV 10
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Db 209 CSGDSGGPLV 218  
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RESULT 7  
US-09-963-896-6  
; Sequence 6, Application US/09963896  
; Patent No. US20020102585A1  
; GENERAL INFORMATION:  
; APPLICANT: Lal, Preeti  
; Guegler, Karl J.  
; Corley, Neil C.  
; TITLE OF INVENTION: PROSTATE GROWTH-ASSOCIATED MEMBRANE PROTEINS  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/963,896  
; FILING DATE: 26-Sep-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/397,558  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CERRONE, MICHAEL C.  
; REGISTRATION NUMBER: 39,132  
; REFERENCE/DOCKET NUMBER: PF-0527 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (650) 855-0555  
; TELEFAX: (650) 845-4166  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 261 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 130989  
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
US-09-963-896-6  
Query Match 94.0%; Score 47; DB 9; Length 261;  
Best Local Similarity 80.0%; Pred. No. 5.1;  
Matches 8; Conservative 0; Mismatches 0; Indels 2; Gaps 0;  
Qy 1 CXGDSGGPXV 10  
| | | | | | |  
Db 209 CSGDSGGPLV 218  
RESULT 8  
US-09-907-402-1  
; Sequence 1, Application US/09907402  
; Patent No. US20020137668A1  
; GENERAL INFORMATION:  
; APPLICANT: Holaday, John W.  
; APPLICANT: Fortier, Anne H.  
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Endothelial Cell Prolifer  
; TITLE OF INVENTION: and Angiogenesis Using Cancer Markers  
; FILE REFERENCE: 05213-0343 43170-261379  
; CURRENT APPLICATION NUMBER: US/09/907,402  
; CURRENT FILING DATE: 2001-07-17

; PRIOR APPLICATION NUMBER: US 60/086,586  
; PRIOR FILING DATE: 1998-05-22  
; PRIOR APPLICATION NUMBER: US 09/316,802  
; PRIOR FILING DATE: 1999-05-21  
; PRIOR APPLICATION NUMBER: US 09/413,049  
; PRIOR FILING DATE: 1999-10-06  
; NUMBER OF SEQ ID NOS: 1  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-907-402-1  
Query Match 94.0%; Score 47; DB 9; Length 261;  
Best Local Similarity 80.0%; Pred. No. 5.1;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 CXGDSGGPXV 10  
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Db 209 CSGDSGGPLV 218  
RESULT 9  
US-09-895-793-946  
; Sequence 946 Application US/09895793  
; Publication No. US20020192763A1  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Devin C.  
; APPLICANT: Mitcham, Jennifer L.  
; APPLICANT: Harlocker, Susan L.  
; APPLICANT: Jiang, Yuxiu  
; APPLICANT: Kalos, Michael D.  
; APPLICANT: Retter, Marc W.  
; APPLICANT: Stolk, John A.  
; APPLICANT: Day, Craig H.  
; APPLICANT: Vedvick, Thomas S.  
; APPLICANT: Carter, Darrick  
; APPLICANT: Li, Samuel X.  
; APPLICANT: Wang, Aijun  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Hepler, William T.  
; APPLICANT: Henderson, Robert A.  
; APPLICANT: Hural, John  
; APPLICANT: McNeill, Patricia D.  
; APPLICANT: Houghton, Raymond L.  
; APPLICANT: Vinals de Bassols, Carlota  
; APPLICANT: Foy, Teresa  
; APPLICANT: Farger, Gary R.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
; FILE REFERENCE: 210121.534C2  
; CURRENT APPLICATION NUMBER: US/09/895,793  
; CURRENT FILING DATE: 2001-06-29  
; NUMBER OF SEQ ID NOS: 982  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 946  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-895-793-946  
Query Match 94.0%; Score 47; DB 9; Length 261;  
Best Local Similarity 80.0%; Pred. No. 5.1;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1 CXGDSGGPXV 10  
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Db 209 CSGDSGGPLV 218  
RESULT 10

US-10-131-241-62  
 ; Sequence 62, Application US/10131241  
 ; Publication No. US20030012792A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Holaday, John W.  
 ; APPLICANT: Fortier, Anne H.  
 ; TITLE OF INVENTION: Compositions and Methods for Inhibiting Endothelial Cell Proliferation  
 ; FILE REFERENCE: 05213-0344 43170-271565  
 ; CURRENT APPLICATION NUMBER: US/10/131,241  
 ; CURRENT FILING DATE: 2002-07-22  
 ; PRIOR APPLICATION NUMBER: US 09/413,049  
 ; PRIOR FILING DATE: 1999-10-06  
 ; PRIOR APPLICATION NUMBER: US 09/316,802  
 ; PRIOR FILING DATE: 1999-05-21  
 ; PRIOR APPLICATION NUMBER: US 60/086,586  
 ; PRIOR FILING DATE: 1998-05-22  
 ; NUMBER OF SEQ ID NOS: 65  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 62  
 ; LENGTH: 261  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-131-241-62

Query Match 94.0%; Score 47; DB 14; Length 261;  
 Best Local Similarity 80.0%; Pred. No. 5.1;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
 | | | | | | | | | |  
 Db 209 CSGDSGGPLV 218

RESULT 11  
 US-10-461-787-10  
 ; Sequence 10, Application US/10461787  
 ; Publication No. US20030199010A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: O'Brien, Timothy J.  
 ; APPLICANT: Underwood, Lowell J.  
 ; TITLE OF INVENTION: No. US20030199010A1 Extracellular Serine Protease  
 ; FILE REFERENCE: D602CIP2  
 ; CURRENT APPLICATION NUMBER: US/10/461,787  
 ; CURRENT FILING DATE: 2003-06-13  
 ; PRIOR APPLICATION NUMBER: US/09/618,259  
 ; PRIOR FILING DATE: 2000-07-18  
 ; PRIOR APPLICATION NUMBER: US 09/127,444  
 ; PRIOR FILING DATE: 1998-08-21  
 ; NUMBER OF SEQ ID NOS: 72  
 ; SEQ ID NO 10  
 ; LENGTH: 261  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; OTHER INFORMATION: Amino acid sequence of Prostate Specific Antigen  
 ; OTHER INFORMATION: (hPSA); accession no. P07288  
 US-10-461-787-10

Query Match 94.0%; Score 47; DB 14; Length 261;  
 Best Local Similarity 80.0%; Pred. No. 5.1;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
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 Db 209 CSGDSGGPLV 218

RESULT 12  
 US-10-298-965-18  
 ; Sequence 18, Application US/10298965  
 ; Publication No. US20030207808A1  
 ; GENERAL INFORMATION:

; APPLICANT: SAVITZKY, Kinneret et al.  
 ; TITLE OF INVENTION: NOVEL NUCLEIC ACID AND AMINO ACID SEQUENCES  
 ; FILE REFERENCE: 2786-0231P  
 ; CURRENT APPLICATION NUMBER: US/10/298,965  
 ; CURRENT FILING DATE: 2001-11-19  
 ; PRIOR APPLICATION NUMBER: IL 128587  
 ; PRIOR FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: IL 129439  
 ; PRIOR FILING DATE: 1999-04-14  
 ; PRIOR APPLICATION NUMBER: IL 131363  
 ; PRIOR FILING DATE: 1999-08-11  
 ; NUMBER OF SEQ ID NOS: 22  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 18  
 ; LENGTH: 261  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-298-965-18

Query Match 94.0%; Score 47; DB 15; Length 261;  
 Best Local Similarity 80.0%; Pred. No. 5.1;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
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 Db 209 CSGDSGGPLV 218

RESULT 13  
 US-10-012-697-1558  
 ; Sequence 1558, Application US/10012697  
 ; Publication No. US20030215803A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Escobedo, Jaime  
 ; APPLICANT: Garcia, Pablo Dominguez  
 ; APPLICANT: Kassam, Altaf  
 ; APPLICANT: Lamson, George  
 ; APPLICANT: Scott, Beth  
 ; APPLICANT: Drmanac, Radoje  
 ; APPLICANT: Crkvenjakov, Radomir  
 ; APPLICANT: Dickson, Mark  
 ; APPLICANT: Drmanac, Snezana  
 ; APPLICANT: Labat, Ivan  
 ; APPLICANT: Leshkowitz, Dena  
 ; APPLICANT: Kita, David  
 ; APPLICANT: Garcia, Veronica  
 ; APPLICANT: Jones, Lee William  
 ; APPLICANT: Stache-Crain, Birgit  
 ; TITLE OF INVENTION: HUMAN GENES AND GENE EXPRESSION PRODUCTS  
 ; TITLE OF INVENTION: ISOLATED FROM HUMAN PROSTATE  
 ; FILE REFERENCE: 2300-16252  
 ; CURRENT APPLICATION NUMBER: US/10/012,697  
 ; CURRENT FILING DATE: 2003-01-21  
 ; PRIOR APPLICATION NUMBER: 60/254,648  
 ; PRIOR FILING DATE: 2000-12-07  
 ; PRIOR APPLICATION NUMBER: 60/275,668  
 ; PRIOR FILING DATE: 2001-03-13  
 ; NUMBER OF SEQ ID NOS: 1568  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1558  
 ; LENGTH: 261  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-012-697-1558

Query Match 94.0%; Score 47; DB 15; Length 261;  
 Best Local Similarity 80.0%; Pred. No. 5.1;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
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 Db 209 CSGDSGGPLV 218

RESULT 14  
US-10-341-434-34  
; Sequence 34, Application US/10341434  
; Publication No. US20030215835A1  
; GENERAL INFORMATION:  
; APPLICANT: Origene Technologies  
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes  
; FILE REFERENCE: 9U 204 205 R1  
; CURRENT APPLICATION NUMBER: US/10/341,434  
; CURRENT FILING DATE: 2003-07-18  
; PRIOR APPLICATION NUMBER: US 60/348,164  
; PRIOR FILING DATE: 2002-01-15  
; PRIOR APPLICATION NUMBER: US 60/348,119  
; PRIOR FILING DATE: 2002-01-15  
; NUMBER OF SEQ ID NOS: 238  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 34  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-341-434-34

Query Match 94.0%; Score 47; DB 15; Length 261;  
Best Local Similarity 80.0%; Pred. No. 5.1;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Cy 1 CXGDSGGPXV 10  
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Db 209 CSGDSGGPLV 218

RESULT 15  
US-10-341-434-41  
; Sequence 41, Application US/10341434  
; Publication No. US20030215835A1  
; GENERAL INFORMATION:  
; APPLICANT: Origene Technologies  
; TITLE OF INVENTION: Differentially Regulated Prostate Cancer Genes  
; FILE REFERENCE: 9U 204 205 R1  
; CURRENT APPLICATION NUMBER: US/10/341,434  
; CURRENT FILING DATE: 2003-07-18  
; PRIOR APPLICATION NUMBER: US 60/348,164  
; PRIOR FILING DATE: 2002-01-15  
; PRIOR APPLICATION NUMBER: US 60/348,119  
; PRIOR FILING DATE: 2002-01-15  
; NUMBER OF SEQ ID NOS: 238  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 41  
; LENGTH: 261  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-341-434-41

Query Match 94.0%; Score 47; DB 15; Length 261;  
Best Local Similarity 80.0%; Pred. No. 5.1;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Cy 1 CXGDSGGPXV 10  
| | | | | | | |  
Db 209 CSGDSGGPLV 218

Search completed: March 18, 2004, 07:24:51  
Job time : 26.1905 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 18, 2004, 07:16:14 ; Search time 10.4762 Seconds  
(without alignments)  
98.874 Million cell updates/sec

Title: US-09-909-348-3

Perfect score: 21

Sequence: 1 RGDA 4

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09D\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	4	9	US-09-909-348-3
2	21	100.0	4	9	US-09-904-090-1
3	21	100.0	4	9	US-09-909-122-3
4	21	100.0	4	10	US-09-911-569-23
5	21	100.0	4	13	US-10-050-692-3
6	21	100.0	4	13	US-10-050-611-1
7	21	100.0	4	13	US-10-050-688-3
8	21	100.0	4	14	US-10-200-879-23
9	21	100.0	7	9	US-09-989-789-289
10	21	100.0	7	9	US-09-989-789-670
11	21	100.0	7	9	US-09-989-789-671
12	21	100.0	7	9	US-09-989-789-672
13	21	100.0	7	9	US-09-989-789-673
14	21	100.0	7	9	US-09-989-789-674
15	21	100.0	7	9	US-09-989-789-675

16	21	100.0	7	9	US-09-989-789-696	Sequence 696, App
17	21	100.0	7	9	US-09-989-789-966	Sequence 966, App
18	21	100.0	7	9	US-09-989-789-971	Sequence 971, App
19	21	100.0	7	9	US-09-989-789-1047	Sequence 1047, App
20	21	100.0	7	9	US-09-989-789-1048	Sequence 1048, App
21	21	100.0	7	9	US-09-989-789-1915	Sequence 1915, App
22	21	100.0	7	9	US-09-989-789-1924	Sequence 1924, App
23	21	100.0	7	9	US-09-989-789-1925	Sequence 1925, App
24	21	100.0	7	9	US-09-989-789-1927	Sequence 1927, App
25	21	100.0	7	9	US-09-989-789-1928	Sequence 1928, App
26	21	100.0	7	9	US-09-989-789-1961	Sequence 1961, App
27	21	100.0	7	9	US-09-989-789-1989	Sequence 1989, App
28	21	100.0	7	9	US-09-989-789-1990	Sequence 1990, App
29	21	100.0	7	9	US-09-989-789-1996	Sequence 1996, App
30	21	100.0	7	9	US-09-989-789-1997	Sequence 1997, App
31	21	100.0	7	9	US-09-989-789-2005	Sequence 2005, App
32	21	100.0	7	9	US-09-989-789-2007	Sequence 2007, App
33	21	100.0	7	9	US-09-989-789-2716	Sequence 2716, App
34	21	100.0	7	9	US-09-989-789-2934	Sequence 2934, App
35	21	100.0	7	9	US-09-989-789-3169	Sequence 3169, App
36	21	100.0	7	9	US-09-989-789-3177	Sequence 3177, App
37	21	100.0	7	9	US-09-989-789-3449	Sequence 3449, App
38	21	100.0	7	9	US-09-989-789-3702	Sequence 3702, App
39	21	100.0	7	9	US-09-989-789-3717	Sequence 3717, App
40	21	100.0	7	9	US-09-989-789-3749	Sequence 3749, App
41	21	100.0	7	10	US-09-990-186-289	Sequence 289, App
42	21	100.0	7	10	US-09-990-186-670	Sequence 670, App
43	21	100.0	7	10	US-09-990-186-671	Sequence 671, App
44	21	100.0	7	10	US-09-990-186-672	Sequence 672, App
45	21	100.0	7	10	US-09-990-186-673	Sequence 673, App

ALIGNMENTS

RESULT 1

US-09-909-348-3  
; Sequence 3, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-3

Query Match 100.0%; Score 21; DB 9; Length 4;  
Best Local Similarity 100.0%; Pred. NO: 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 2

US-09-904-090-1  
; Sequence 1, Application US/09904090

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; Patent No. US20020061852A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
;   PEPTIDES
; FILE REFERENCE: 3033.1000-001
; CURRENT APPLICATION NUMBER: US/09/904,090
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US 60/217,593
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
;   LENGTH: 4
;   TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polypeptide, fragment of thrombin
US-09-904-090-1

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Query Match      100.0%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 RGDA 4
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Db      1 RGDA 4

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RESULT 3
US-09-909-122-3
; Sequence 3, Application US/09909122
; Patent No. US20020128202A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jiping
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin
;   Peptide Derivatives
; FILE REFERENCE: 3033.1002-001
; CURRENT APPLICATION NUMBER: US/09/909,122
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
;   LENGTH: 4
;   TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide fragment of Thrombin
US-09-909-122-3

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Query Match      100.0%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 RGDA 4
      ||||
Db      1 RGDA 4

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RESULT 4
US-09-911-569-23
; Sequence 23, Application US/09911569
; Publication No US20030069173A1
; GENERAL INFORMATION:
; APPLICANT: HAWLEY-NELSON, PAMELA
; LAN, JIANQING
; SHIH, POJEN

```

```

; JESSE, JOEL A.
; SCHIFFERLI, KEVIN P.
; GEBEYEHU, GULILAT
; TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
; NUMBER OF SEQUENCES: 120
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GREENLEE, WINNER & SULLIVAN
; STREET: 5370 MANHATTAN CIRCLE, SUITE 201
; CITY: BOULDER
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/911,569
; FILING DATE: 23-Jul-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/039,780
; FILING DATE: 16-MAR-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: SULLIVAN, SALLY A.
; REGISTRATION NUMBER: 32,064
; REFERENCE/DOCKET NUMBER: 32-95D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303)499-8080
; TELEFAX: (303)499-8089
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 4 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: not relevant
;   TOPOLOGY: linear
;   MOLECULE TYPE: peptide
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-911-569-23

Query Match      100.0%; Score 21; DB 10; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 RGDA 4
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Db      1 RGDA 4

RESULT 5
US-10-050-692-3
; Sequence 3, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jiping
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
;   PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human prothrombin
US-10-050-692-3

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
Db 1 RGDA 4

RESULT 6
US-10-050-611-1
; Sequence 1, Application US/10050611
; Publication No. US2002018793A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; PRIOR FILING DATE: 2002-01-16
; PRIOR FILING DATE: 2001-07-12
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of thrombin
US-10-050-611-1

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
Db 1 RGDA 4

RESULT 7
US-10-050-688-3
; Sequence 3, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stiernberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; TITLE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; PRIOR FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
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; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
US-10-050-688-3

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
Db 1 RGDA 4

RESULT 8
US-10-200-879-23
; Sequence 23, Application US/10200879
; Publication No. US20030144230A1
; GENERAL INFORMATION:
; APPLICANT: HAWLEY-NELSON, PAMELA
; APPLICANT: LAN, JIANQING
; APPLICANT: SHIH, POJEN
; APPLICANT: JESSE, JOEL A.
; APPLICANT: SCHIFFERLI, KEVIN P.
; APPLICANT: GEEYEHU, GULILAT
; TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
; NUMBER OF SEQUENCES: 120
; CORRESPONDENCE ADDRESS:
; ADDRESS: GREENLEE, WINNER & SULLIVAN
; STREET: 5370 MANHATTAN CIRCLE, SUITE 201
; CITY: BOULDER
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/200,879
; FILING DATE: 23-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/911,569
; FILING DATE: 23-JUL-2001
; APPLICATION NUMBER: US 09/039,780
; FILING DATE: 16-MAR-1998
; APPLICATION NUMBER: US 08/818,200
; FILING DATE: 14-MAR-1997
; APPLICATION NUMBER: US 08/658,130
; FILING DATE: 04-JUN-1996
; APPLICATION NUMBER: US 08/477,354
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: SULLIVAN, SALLY A.
; REGISTRATION NUMBER: 32,064
; REFERENCE/DOCKET NUMBER: 32-95E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303)499-8080
; TELEFAX: (303)499-8089
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
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US-10-200-879-23

Query Match 100.0%; Score 21; DB 14; Length 4;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4  
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 Db 1 RGDA 4

RESULT 9

US-09-989-789-289  
 ; Sequence 289, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 289  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-289

Query Match 100.0%; Score 21; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 RGDA 4

RESULT 10

US-09-989-789-670  
 ; Sequence 670, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 670  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-670

Query Match 100.0%; Score 21; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4  
 ||||  
 Db 1 RGDA 4

RESULT 11

US-09-989-789-671

; Sequence 671, Application US/09989789  
 ; Patent No. US20020063379A1

; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 671  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-671

Query Match 100.0%; Score 21; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4  
 ||||  
 Db 1 RGDA 4

RESULT 12

US-09-989-789-672  
 ; Sequence 672, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 672  
 ; LENGTH: 7  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
 US-09-989-789-672

Query Match 100.0%; Score 21; DB 9; Length 7;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4  
 ||||  
 Db 1 RGDA 4

RESULT 13

US-09-989-789-673  
 ; Sequence 673, Application US/09989789  
 ; Patent No. US20020063379A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: LIU, Qiang  
 ; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
 ; FILE REFERENCE: 8325-0011.20 / S11-US2  
 ; CURRENT APPLICATION NUMBER: US/09/989,789  
 ; CURRENT FILING DATE: 2002-03-25  
 ; NUMBER OF SEQ ID NOS: 4085  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 673  
 ; LENGTH: 7



; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-673

Search completed: March 18, 2004, 07:24:52  
Job time : 11.4762 secs

Query Match 100.0%; Score 21; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred.No. 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
Db 1 RGDA 4

RESULT 14  
US-09-989-789-674  
; Sequence 674, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 674  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-674

Query Match 100.0%; Score 21; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred.No. 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
Db 1 RGDA 4

RESULT 15  
US-09-989-789-675  
; Sequence 675, Application US/09989789  
; Patent No. US20020063379A1  
; GENERAL INFORMATION:  
; APPLICANT: LIU, Qiang  
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE  
; FILE REFERENCE: 8325-0011.20 / S11-US2  
; CURRENT APPLICATION NUMBER: US/09/989,789  
; CURRENT FILING DATE: 2002-03-25  
; NUMBER OF SEQ ID NOS: 4085  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 675  
; LENGTH: 7  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: example ZFP  
US-09-989-789-675

Query Match 100.0%; Score 21; DB 9; Length 7;  
Best Local Similarity 100.0%; Pred.No. 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
Db 1 RGDA 4



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17	67	94.4	259	15	US-10-165-442-4	Sequence 4, Appli
18	67	94.4	295	15	US-10-165-442-1	Sequence 1, Appli
19	67	94.4	295	15	US-10-165-442-3	Sequence 3, Appli
20	67	94.4	622	14	US-10-020-141-8	Sequence 8, Appli
21	67	94.4	622	14	US-10-017-631-2	Sequence 2, Appli
22	67	94.4	622	14	US-10-214-332-116	Sequence 116, App
23	67	94.4	622	14	US-10-172-712-29	Sequence 29, Appl
24	61	85.9	30	9	US-09-820-893-111	Sequence 111, App
25	61	85.9	30	12	US-10-607-565-111	Sequence 111, App
26	61	85.9	187	9	US-09-804-156-17	Sequence 17, Appl
27	61	85.9	187	9	US-09-946-633-9	Sequence 9, Appli
28	61	85.9	187	13	US-10-125-459-9	Sequence 9, Appli
29	61	85.9	187	13	US-10-067-761-17	Sequence 17, Appl
30	61	85.9	187	14	US-10-319-519-17	Sequence 17, Appl
31	61	85.9	311	11	US-09-981-151A-75	Sequence 75, Appl
32	61	85.9	414	9	US-09-820-893-69	Sequence 69, Appl
33	61	85.9	414	12	US-10-607-565-69	Sequence 69, Appl
34	61	85.9	448	11	US-09-981-151A-29	Sequence 29, Appl
35	61	85.9	448	11	US-09-981-151A-73	Sequence 73, Appl
36	61	85.9	455	11	US-09-981-151A-72	Sequence 72, Appl
37	61	85.9	457	9	US-09-888-615-110	Sequence 110, App
38	61	85.9	457	11	US-09-981-151A-71	Sequence 71, Appl
39	61	85.9	472	11	US-09-981-151A-27	Sequence 27, Appl
40	61	85.9	480	9	US-09-820-893-108	Sequence 108, App
41	61	85.9	480	12	US-10-607-565-108	Sequence 108, App
42	59	83.1	415	12	US-10-670-628-2	Sequence 2, Appli
43	59	83.1	419	10	US-09-978-917A-4	Sequence 4, Appli
44	59	83.1	419	14	US-10-182-263-1	Sequence 1, Appli
45	59	83.1	419	14	US-10-182-263-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-09-909-122-4  
; Sequence 4, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(14)  
; OTHER INFORMATION: Xaa at position six is Glu or Gln  
; OTHER INFORMATION: Xaa at position thirteen is Phe, Met, Leu, His or Val  
US-09-909-122-4

Query Match 94.4%; Score 67; DB 9; Length 14;  
Best Local Similarity 100.0%; Pred. No. 0.00088;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 RGDCKXGDSGGPXV 14  
DB 1 RGDCKXGDSGGPXV 14

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 18, 2004, 07:16:14 ; Search time 36.6667 Seconds  
(without alignments)  
98.874 Million cell updates/sec

Title: US-09-909-348-4

Perfect score: 71

Sequence: 1 RGDCKXGDSGGPXV 14

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

- Database :
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  - 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
  - 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
  - 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
  - 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
  - 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
  - 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
  - 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
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  - 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
  - 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	67	94.4	14	9	US-09-909-122-4
2	67	94.4	14	13	US-10-050-692-4
3	67	94.4	14	13	US-10-050-688-4
4	67	94.4	23	9	US-09-777-328-8
5	67	94.4	23	9	US-09-304-090-3
6	67	94.4	23	13	US-10-050-692-6
7	67	94.4	23	13	US-10-050-611-3
8	67	94.4	23	13	US-10-050-611-4
9	67	94.4	23	13	US-10-050-688-5
10	67	94.4	23	13	US-10-050-688-6
11	67	94.4	25	9	US-09-909-348-5
12	67	94.4	25	9	US-09-909-122-5
13	67	94.4	25	13	US-10-050-692-5
14	67	94.4	250	10	US-09-898-837A-45
15	67	94.4	251	10	US-09-898-837A-41

RESULT 2  
US-10-050-692-4  
; Sequence 4, Application US/10050692  
; Publication No. US20020182205A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jiping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
; FILE REFERENCE: 3033.1002-004  
; CURRENT APPLICATION NUMBER: US/10/050,692  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,122  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: fragment of human prothrombin  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (6)...(6)  
; OTHER INFORMATION: Xaa = Glu or Gln  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (13)...(13)  
; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val  
US-10-050-692-4

Query Match 94.4%; Score 67; DB 13; Length 14;  
Best Local Similarity 100.0%; Pred. No. 0.00088;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14  
Db 1 RGDACXGDSGGPXV 14  
|||||

RESULT 3  
US-10-050-688-4  
; Sequence 4, Application US/10050688  
; Publication No. US20020198154A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH  
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN  
; TITLE OF INVENTION: RECEPTOR  
; FILE REFERENCE: 3033.1003-004  
; CURRENT APPLICATION NUMBER: US/10/050,688  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,348  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

; FEATURE:  
; OTHER INFORMATION: peptide fragment of thrombin  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (6)...(6)  
; OTHER INFORMATION: Xaa = Glu or Gln  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (13)...(13)  
; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val  
US-10-050-688-4

Query Match 94.4%; Score 67; DB 13; Length 14;  
Best Local Similarity 100.0%; Pred. No. 0.00088;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14  
Db 1 RGDACXGDSGGPXV 14  
|||||

RESULT 4  
US-09-777-328-8  
; Sequence 8, Application US/09777328  
; Patent No. US20020032314A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: RAMAKRISHNAN, SHYAM  
; TITLE OF INVENTION: SYNTHETIC PEPTIDE NEUTROPHIL CELL CHEMOTACTIC AGENTS  
; FILE REFERENCE: CHBP:002  
; CURRENT APPLICATION NUMBER: US/09/777,328  
; CURRENT FILING DATE: 2001-02-05  
; PRIOR APPLICATION NUMBER: 08/330,594  
; PRIOR FILING DATE: 1994-10-28  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 8  
; LENGTH: 23  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: Peptide  
US-09-777-328-8

Query Match 94.4%; Score 67; DB 9; Length 23;  
Best Local Similarity 85.7%; Pred. No. 0.0014;  
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14  
Db 10 RGDACGDSGGPFV 23  
|||||

RESULT 5  
US-09-904-090-3  
; Sequence 3, Application US/09904090  
; Patent No. US20020061852A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell  
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED  
; TITLE OF INVENTION: PEPTIDES  
; FILE REFERENCE: 3033.1000-001  
; CURRENT APPLICATION NUMBER: US/09/904,090  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: US 60/217,583  
; PRIOR FILING DATE: 2000-07-12  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 23  
; TYPE: PRT  
; ORGANISM: Artificial Sequence

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;
; FEATURE:
; OTHER INFORMATION: Polypeptide, fragment of thrombin
US-09-904-090-3

Query Match          94.4%; Score 67; DB 9; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014; 2; Indels 0; Gaps 0;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 6
US-10-050-692-6
; Sequence 6, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinping
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; FILE OF INVENTION: PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-692-6

Query Match          94.4%; Score 67; DB 13; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 7
US-10-050-611-3
; Sequence 3, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-611-3

Query Match          94.4%; Score 67; DB 13; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 8
US-10-050-611-4
; Sequence 4, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: 23
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-611-4

Query Match          94.4%; Score 67; DB 13; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 9
US-10-050-688-5
; Sequence 5, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; FILE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
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; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
US-10-050-688-5

Query Match          94.4%; Score 67; DB 13; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 10
US-10-050-688-6
; Sequence 6, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; TITLE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: CONH2
US-10-050-688-6

Query Match          94.4%; Score 67; DB 13; Length 23;
Best Local Similarity 85.7%; Pred. No. 0.0014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 10 RGDACEGDSGGPFV 23

RESULT 11
US-09-909-348-5
; Sequence 5, Application US/09909348
; Patent No. US20020042373A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists
; TITLE OF INVENTION: Of The No. US20020042373A1-Proteolytically Activated Thrombin Re
; FILE REFERENCE: 3033.1003-001
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; CURRENT APPLICATION NUMBER: US/09/909,348
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide fragment of Thrombin
US-09-909-348-5

Query Match          94.4%; Score 67; DB 9; Length 25;
Best Local Similarity 85.7%; Pred. No. 0.0015;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 12 RGDACEGDSGGPFV 25

RESULT 12
US-09-909-122-5
; Sequence 5, Application US/09909122
; Patent No. US20020128202A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jimping
; APPLICANT: Regin, William R.
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin
; TITLE OF INVENTION: Peptide Derivatives
; FILE REFERENCE: 3033.1002-001
; CURRENT APPLICATION NUMBER: US/09/909,122
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide fragment of Thrombin
US-09-909-122-5

Query Match          94.4%; Score 67; DB 9; Length 25;
Best Local Similarity 85.7%; Pred. No. 0.0015;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPV 14
Db 12 RGDACEGDSGGPFV 25

RESULT 13
US-10-050-692-5
; Sequence 5, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jimping
; APPLICANT: Regin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; TITLE OF INVENTION: PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
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; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human prothrombin
US-10-050-692-5

Query Match          94.4%; Score 67; DB 13; Length 25;
Best Local Similarity 85.7%; Pred. No. 0.0015;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14
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Db 12 RGDACEGDSGGPFV 25

RESULT 14
US-09-898-837A-45
; Sequence 45, Application US/09898837A
; Publication No. US20030077697A1
; GENERAL INFORMATION:
; APPLICANT: Quinn, Kerry E.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: Majumder, Kumud
; APPLICANT: Vernet, Corine
; APPLICANT: Herrmann, John L.
; APPLICANT: Burgess, Catherine
; APPLICANT: Fernandes, Elma
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Rastelli, Luca
; APPLICANT: Curagen Corporation
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: NOVEL SERINE/THREONINE PROTEIN-KINASE LIKE PROTEINS AND
; FILE REFERENCE: 15966-598 CIP
; CURRENT APPLICATION NUMBER: US/09/898,837A
; CURRENT FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/165,986
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/194,839
; PRIOR FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/195,637
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/197,080
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/232,677
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/181,347
; PRIOR FILING DATE: 2000-02-09
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/194,195
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/215,906
; PRIOR FILING DATE: 2000-07-03
; PRIOR APPLICATION NUMBER: U.S.S.N. 09/715,427
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 45
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Bos taurus
US-09-898-837A-45

Query Match          94.4%; Score 67; DB 10; Length 250;
Best Local Similarity 85.7%; Pred. No. 0.014;
Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14
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Db 198 RGDACEGDSGGPFV 211

Search completed: March 18, 2004, 07:24:52
Job time : 36.6667 secs
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OM protein - protein search, using sw model

Run on: March 18, 2004, 07:16:14 ; Search time 65.4762 Seconds

(without alignments)  
98.874 Million cell updates/sec

Title: US-09-909-348-5

Perfect score: 141

Sequence: 1 AGTRYKPDGKRGDACEGDSGGPFV 25

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 1049977

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	141	100.0	25	9	US-09-909-348-5
2	141	100.0	25	9	US-09-909-122-5
3	141	100.0	25	13	US-10-050-692-5
4	121	85.8	23	9	US-09-777-328-8
5	121	85.8	23	9	US-09-904-090-3
6	121	85.8	23	13	US-10-050-611-3
7	121	85.8	23	13	US-10-050-611-4
8	121	85.8	23	13	US-10-050-688-5
9	121	85.8	23	13	US-10-050-688-6
10	121	85.8	259	15	US-10-165-442-2
11	121	85.8	259	15	US-10-165-442-4
12	121	85.8	295	15	US-10-165-442-1
13	121	85.8	295	15	US-10-165-442-3
14	121	85.8	622	14	US-10-020-141-8
15	121	85.8	622	14	US-10-017-631-2

16	121	85.8	622	14	US-10-214-932-116
17	121	85.8	622	14	US-10-172-712-29
18	118	83.7	23	13	US-10-050-692-6
19	114	80.9	250	10	US-09-898-837A-45
20	114	80.9	251	10	US-09-898-837A-41
21	71	50.4	415	12	US-10-670-628-2
22	71	50.4	419	10	US-09-978-917A-4
23	71	50.4	419	14	US-10-182-263-1
24	71	50.4	419	14	US-10-182-263-3
25	71	50.4	419	14	US-10-182-263-4
26	71	50.4	419	14	US-10-182-263-5
27	71	50.4	419	14	US-10-182-263-6
28	71	50.4	419	15	US-10-168-407-1
29	71	50.4	419	15	US-10-168-407-3
30	71	50.4	419	15	US-10-168-407-4
31	71	50.4	419	15	US-10-168-407-5
32	71	50.4	419	15	US-10-168-407-6
33	71	50.4	461	10	US-09-978-917A-2
34	71	50.4	461	14	US-10-182-263-2
35	71	50.4	461	15	US-10-168-407-2
36	69	48.9	12	9	US-09-904-090-2
37	69	48.9	12	13	US-10-050-611-2
38	68.5	48.6	254	15	US-10-094-749-2110
39	68.5	48.6	260	14	US-10-266-035-2
40	68.5	48.6	290	11	US-09-833-245-1294
41	68.5	48.6	290	12	US-10-147-493-222
42	68.5	48.6	290	12	US-10-145-127-222
43	68.5	48.6	290	12	US-10-160-503-222
44	68.5	48.6	290	12	US-10-143-118-222
45	68.5	48.6	290	12	US-10-144-993-222

## ALIGNMENTS

### RESULT 1

US-09-909-348-5  
; Sequence 5, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; FILE REFERENCE: Of The No. US20020042373A1-Proteolytically Activated Thrombin R  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
US-09-909-348-5

Query Match 100.0%; Score 141; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.2e-12;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGTRYKPDGKRGDACEGDSGGPFV 25

Db 1 AGTRYKPDGKRGDACEGDSGGPFV 25

### RESULT 2

US-09-909-122-5  
; Sequence 5, Application US/09909122

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; Patent No. US20020128202A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinding
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: Stimulation of Bone Growth With Thrombin
; TITLE OF INVENTION: Peptide Derivatives
; FILE REFERENCE: 3033.1002-001
; CURRENT APPLICATION NUMBER: US/09/909,122
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0.
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide fragment of Thrombin
; US-09-909-122-5

Query Match      100.0%; Score 141; DB 9; Length 25;
Best Local Similarity 100.0%; Pred. No. 6.2e-12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGTRYKPDGKRGDACEGDSGGPFV 25
Db 1 AGTRYKPDGKRGDACEGDSGGPFV 25

RESULT 3
US-10-050-692-5
; Sequence 5, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinding
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; TITLE OF INVENTION: PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human prothrombin
; US-10-050-692-5

Query Match      100.0%; Score 141; DB 13; Length 25;
Best Local Similarity 100.0%; Pred. No. 6.2e-12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGTRYKPDGKRGDACEGDSGGPFV 25
Db 1 AGTRYKPDGKRGDACEGDSGGPFV 25

RESULT 4
US-09-777-328-8
; Sequence 8, Application US/09777328
; Patent No. US20020032314A1
; GENERAL INFORMATION:
; APPLICANT: CAREY, DARRELL H.
; APPLICANT: RAMAKRISHNAN, SHYAM
; TITLE OF INVENTION: SYNTHETIC PEPTIDE NEUTROPHIL CELL CHEMOTACTIC AGENTS
; FILE REFERENCE: CHRP.002
; CURRENT APPLICATION NUMBER: US/09/777,328
; CURRENT FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: 08/330,594
; PRIOR FILING DATE: 1994-10-28
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Peptide
; US-09-777-328-8

Query Match      85.8%; Score 121; DB 9; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 5
US-09-904-090-3
; Sequence 3, Application US/09904090
; Patent No. US20020061852A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE REFERENCE: 3033.1000-001
; CURRENT APPLICATION NUMBER: US/09/904,090
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polypeptide, fragment of thrombin
; US-09-904-090-3

Query Match      85.8%; Score 121; DB 9; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 6
US-10-050-611-3
; Sequence 3, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
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; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of thrombin
US-10-050-611-3

Query Match      85.8%; Score 121; DB 13; Length 23;
Best Local Similarity 100.0%; Pred.No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 7
US-10-050-611-4
; Sequence 4, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: c-terminal amidated fragment of human thrombin
; NAME/KEY: AMIDATION
; LOCATION: 23
; OTHER INFORMATION: valine is amidated as CONH2
US-10-050-611-4

Query Match      85.8%; Score 121; DB 13; Length 23;
Best Local Similarity 100.0%; Pred.No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 8
US-10-050-688-5
; Sequence 5, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stiermann, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: CONH2
US-10-050-688-6

Query Match      85.8%; Score 121; DB 13; Length 23;
Best Local Similarity 100.0%; Pred.No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 9
US-10-050-688-6
; Sequence 6, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stiermann, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 23
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: AMIDATION
; LOCATION: (23)...(23)
; OTHER INFORMATION: CONH2
US-10-050-688-6

Query Match      85.8%; Score 121; DB 13; Length 23;
Best Local Similarity 100.0%; Pred.No. 2.6e-09;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 3 YKPDEGKRGDACEGDSGGPFV 23

RESULT 10
US-10-165-442-2
; Sequence 2, Application US/10165442
; Publication No. US20030215440A1
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; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: Antithrombotic Variant Thrombins
; FILE REFERENCE: E056 1070.1
; CURRENT APPLICATION NUMBER: US/10/165,442
; CURRENT FILING DATE: 2002-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)..(259)
; OTHER INFORMATION: Thrombin W215A B-Chain
US-10-165-442-2

Query Match      85.8%; Score 121; DB 15; Length 259;
Best Local Similarity 100.0%; Pred. No. 3.2e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 190 YKPDEGKRGDACEGDSGGPFV 210

RESULT 11
US-10-165-442-4
; Sequence 4, Application US/10165442
; Publication No. US20030215440A1
; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: Antithrombotic Variant Thrombins
; FILE REFERENCE: E056 1070.1
; CURRENT APPLICATION NUMBER: US/10/165,442
; CURRENT FILING DATE: 2002-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)..(259)
; OTHER INFORMATION: Thrombin WE B-Chain
US-10-165-442-4

Query Match      85.8%; Score 121; DB 15; Length 259;
Best Local Similarity 100.0%; Pred. No. 3.2e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 190 YKPDEGKRGDACEGDSGGPFV 210

RESULT 12
US-10-165-442-1
; Sequence 1, Application US/10165442
; Publication No. US20030215440A1
; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: Antithrombotic Variant Thrombins
; FILE REFERENCE: E056 1070.1
; CURRENT APPLICATION NUMBER: US/10/165,442
; CURRENT FILING DATE: 2002-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 295
; TYPE: PRT

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)..(36)
; OTHER INFORMATION: Thrombin W215A A-Chain
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (37)..(295)
; OTHER INFORMATION: Thrombin W215A B-Chain
US-10-165-442-1

Query Match      85.8%; Score 121; DB 15; Length 295;
Best Local Similarity 100.0%; Pred. No. 3.6e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 226 YKPDEGKRGDACEGDSGGPFV 246

RESULT 13
US-10-165-442-3
; Sequence 3, Application US/10165442
; Publication No. US20030215440A1
; GENERAL INFORMATION:
; APPLICANT: Emory University
; TITLE OF INVENTION: Antithrombotic Variant Thrombins
; FILE REFERENCE: E056 1070.1
; CURRENT APPLICATION NUMBER: US/10/165,442
; CURRENT FILING DATE: 2002-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)..(36)
; OTHER INFORMATION: Thrombin WE A-Chain
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (37)..(295)
; OTHER INFORMATION: Thrombin WE B-Chain
US-10-165-442-3

Query Match      85.8%; Score 121; DB 15; Length 295;
Best Local Similarity 100.0%; Pred. No. 3.6e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 YKPDEGKRGDACEGDSGGPFV 25
Db 226 YKPDEGKRGDACEGDSGGPFV 246

RESULT 14
US-10-020-141-8
; Sequence 8, Application US/10020141
; Publication No. US20030092013A1
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Jeanette
; APPLICANT: Ableson, Allen
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
; FILE REFERENCE: MMI-002
; CURRENT APPLICATION NUMBER: US/10/020,141
; CURRENT FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/313,097
; PRIOR FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 60/327,485
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 8

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; LENGTH: 622
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-020-141-8

Query Match      85.8%; Score 121; DB 14; Length 622;
Best Local Similarity 100.0%; Pred. No. 7.8e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YKPDEGKRGDACEGDSGGPFV 25
Db      553 YKPDEGKRGDACEGDSGGPFV 573

RESULT 15
US-10-017-631-2
; Sequence 2, Application US/10017631
; Publication No. US20030099957A1
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Jeanette
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
; FILE REFERENCE: MMI-006
; CURRENT APPLICATION NUMBER: US/10/017,631
; CURRENT FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/325,930
; PRIOR FILING DATE: 2001-09-28
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 622
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-017-631-2

Query Match      85.8%; Score 121; DB 14; Length 622;
Best Local Similarity 100.0%; Pred. No. 7.8e-08;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 YKPDEGKRGDACEGDSGGPFV 25
Db      553 YKPDEGKRGDACEGDSGGPFV 573
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Search completed: March 18, 2004, 07:24:53  
Job time : 66.4762 secs



OM protein - protein search, using sw model

Run on: March 18, 2004, 07:17:04 ; Search time 33.5 Seconds  
(without alignments)  
77,300 Million cell updates/sec

Title: US-09-909-348-1

Perfect score: 59

Sequence: 1. CEGDSGGPFV 10

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: \*1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 32147

Minimum DB seq length: 10

Maximum DB seq length: 10

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	59	100.0	10	9 US-09-909-348-1	Sequence 1, Appli
2	59	100.0	10	9 US-09-909-122-1	Sequence 1, Appli
3	59	100.0	10	13 US-10-050-692-1	Sequence 1, Appli
4	59	100.0	10	13 US-10-050-688-1	Sequence 1, Appli
5	46	78.0	10	9 US-09-909-348-2	Sequence 2, Appli
6	46	78.0	10	9 US-09-909-122-2	Sequence 2, Appli
7	46	78.0	10	13 US-10-050-692-2	Sequence 2, Appli
8	46	78.0	10	13 US-10-050-688-2	Sequence 2, Appli
9	34	57.6	10	10 US-09-572-404B-606	Sequence 606, App
10	28	47.5	10	10 US-09-572-404B-3584	Sequence 3584, Ap
11	27	45.8	10	10 US-09-572-404B-3784	Sequence 3784, Ap
12	27	45.8	10	10 US-09-572-404B-3785	Sequence 3785, Ap
13	25	42.4	10	9 US-09-879-957-55	Sequence 55, Appl
14	25	42.4	10	10 US-09-572-404B-51	Sequence 51, Appl
15	25	42.4	10	10 US-09-572-404B-53	Sequence 53, Appl

16	25	42.4	10	10 US-09-572-404B-55	Sequence 55, Appl
17	25	42.4	10	10 US-09-572-404B-63	Sequence 63, Appl
18	25	42.4	10	10 US-09-572-404B-174	Sequence 174, App
19	25	42.4	10	10 US-09-572-404B-2027	Sequence 2027, Ap
20	25	42.4	10	10 US-09-572-404B-2033	Sequence 2033, Ap
21	25	42.4	10	10 US-08-572-404B-2091	Sequence 2091, Ap
22	25	42.4	10	10 US-09-572-404B-2093	Sequence 2093, Ap
23	25	42.4	10	10 US-09-572-404B-2095	Sequence 2095, Ap
24	25	42.4	10	10 US-09-572-404B-2098	Sequence 2098, Ap
25	25	42.4	10	10 US-09-932-165-319	Sequence 319, App
26	25	42.4	10	10 US-09-932-165-532	Sequence 532, App
27	25	42.4	10	10 US-09-932-165-745	Sequence 745, App
28	25	42.4	10	10 US-08-932-165-928	Sequence 928, App
29	25	42.4	10	10 US-09-932-165-1084	Sequence 1084, Ap
30	24	40.7	10	9 US-09-765-086-58	Sequence 58, Appl
31	24	40.7	10	10 US-09-572-404B-4	Sequence 4, Appli
32	24	40.7	10	10 US-09-572-270A-277	Sequence 277, App
33	24	40.7	10	10 US-09-572-270A-281	Sequence 281, App
34	24	40.7	10	10 US-09-572-270A-283	Sequence 283, App
35	24	40.7	10	10 US-08-572-270A-285	Sequence 285, App
36	24	40.7	10	10 US-09-572-270A-293	Sequence 293, App
37	24	40.7	10	10 US-09-572-270A-295	Sequence 295, App
38	24	40.7	10	13 US-10-008-355-25	Sequence 25, Appl
39	24	40.7	10	14 US-10-264-374-58	Sequence 58, Appl
40	24	40.7	10	14 US-10-375-992-58	Sequence 58, Appl
41	23	39.0	10	10 US-09-572-404B-114	Sequence 114, App
42	23	39.0	10	10 US-08-572-404B-176	Sequence 176, App
43	23	39.0	10	10 US-09-572-404B-342	Sequence 342, App
44	23	39.0	10	10 US-09-572-404B-344	Sequence 344, App
45	23	39.0	10	10 US-09-572-404B-1306	Sequence 1306, Ap

ALIGNMENTS

RESULT 1  
US-09-909-348-1  
; Sequence 1, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; FILE REFERENCE: Of The No. US20020042373A1-Proteolytically Activated Thrombin R  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-1

Query Match 100.0%; Score 59; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CEGDSGGPFV 10  
|||  
Db 1 CEGDSGGPFV 10

RESULT 2  
US-09-909-122-1  
; Sequence 1, Application US/09909122

; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jiping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-122-1

Query Match 100.0%; Score 59; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 3

US-10-050-692-1  
; Sequence 1, Application US/10050692  
; Publication No. US20020182205A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jiping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
; FILE REFERENCE: 3033.1002-004  
; CURRENT APPLICATION NUMBER: US/10/050,692  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,122  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: fragment of human prothrombin  
US-10-050-692-1

Query Match 100.0%; Score 59; DB 13; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 4

; Sequence 1, Application US/10050688  
; Publication No. US20020198154A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH  
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN  
; TITLE OF INVENTION: RECEPTOR  
; FILE REFERENCE: 3033.1003-004  
; CURRENT APPLICATION NUMBER: US/10/050,688  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,348  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: peptide fragment of thrombin  
US-10-050-688-1

Query Match 100.0%; Score 59; DB 13; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.0076;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10

## RESULT 5

US-09-909-348-2  
; Sequence 2, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; TITLE OF INVENTION: Of The No. US20020042373A1-Proteolytically Activated Thrombin Re  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(10)  
; OTHER INFORMATION: Xaa at position two is Glu or Gln  
; OTHER INFORMATION: Xaa at position nine is Phe, Met, Leu, His or Val  
US-09-909-348-2

Query Match 78.0%; Score 46; DB 9; Length 10;  
Best Local Similarity 80.0%; Pred. No. 0.83; 2; Indels 0; Gaps 0;  
Matches 8; Conservative 0; Mismatches 0;

Qy 1 CEGDSGGPFV 10  
Db 1 CEGDSGGPFV 10



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OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val		OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val		OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val	
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Best Local Similarity	80.0%; Pred. No. 0.83;	Best Local Similarity	80.0%; Pred. No. 0.83;	Best Local Similarity	80.0%; Pred. No. 0.83;
Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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GENERAL INFORMATION:		GENERAL INFORMATION:		GENERAL INFORMATION:	
APPLICANT: Carney, Darrell H.		APPLICANT: Carney, Darrell H.		APPLICANT: Carney, Darrell H.	
APPLICANT: Crowther, Roger S.		APPLICANT: Crowther, Roger S.		APPLICANT: Crowther, Roger S.	
APPLICANT: Stierberg, Janet		APPLICANT: Stierberg, Janet		APPLICANT: Stierberg, Janet	
APPLICANT: Bergmann, John		APPLICANT: Bergmann, John		APPLICANT: Bergmann, John	
TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH		TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH		TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH	
AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN		AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN		AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN	
TITLE OF INVENTION: RECEPTOR		TITLE OF INVENTION: RECEPTOR		TITLE OF INVENTION: RECEPTOR	
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PRIOR APPLICATION NUMBER: 60/219,800		PRIOR APPLICATION NUMBER: 60/219,800		PRIOR APPLICATION NUMBER: 60/219,800	
PRIOR FILING DATE: 2000-07-20		PRIOR FILING DATE: 2000-07-20		PRIOR FILING DATE: 2000-07-20	
NUMBER OF SEQ ID NOS: 6		NUMBER OF SEQ ID NOS: 6		NUMBER OF SEQ ID NOS: 6	
SOFTWARE: FastSeq for Windows Version 4.0		SOFTWARE: FastSeq for Windows Version 4.0		SOFTWARE: FastSeq for Windows Version 4.0	
SEQ ID NO 2		SEQ ID NO 2		SEQ ID NO 2	
LENGTH: 10		LENGTH: 10		LENGTH: 10	
TYPE: PRT		TYPE: PRT		TYPE: PRT	
ORGANISM: Artificial Sequence		ORGANISM: Artificial Sequence		ORGANISM: Artificial Sequence	
FEATURE:		FEATURE:		FEATURE:	
OTHER INFORMATION: peptide fragment of thrombin		OTHER INFORMATION: peptide fragment of thrombin		OTHER INFORMATION: peptide fragment of thrombin	
NAME/KEY: VARIANT		NAME/KEY: VARIANT		NAME/KEY: VARIANT	
LOCATION: (2)...(2)		LOCATION: (2)...(2)		LOCATION: (2)...(2)	
OTHER INFORMATION: Xaa = Glu or Gln		OTHER INFORMATION: Xaa = Glu or Gln		OTHER INFORMATION: Xaa = Glu or Gln	
FEATURE:		FEATURE:		FEATURE:	
NAME/KEY: VARIANT		NAME/KEY: VARIANT		NAME/KEY: VARIANT	
LOCATION: (9)...(9)		LOCATION: (9)...(9)		LOCATION: (9)...(9)	
OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val		OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val		OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val	
US-10-050-688-2		US-10-050-688-2		US-10-050-688-2	
Query Match	78.0%; Score 46; DB 13; Length 10;	Query Match	78.0%; Score 46; DB 13; Length 10;	Query Match	78.0%; Score 46; DB 13; Length 10;
Best Local Similarity	80.0%; Pred. No. 0.83;	Best Local Similarity	80.0%; Pred. No. 0.83;	Best Local Similarity	80.0%; Pred. No. 0.83;
Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	Matches	8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY	1 CEGDSGGPFV 10	QY	1 CEGDSGGPFV 10	QY	1 CEGDSGGPFV 10
Db	1 CXGDSGGPFV 10	Db	1 CXGDSGGPFV 10	Db	1 CXGDSGGPFV 10
RESULT 7		RESULT 7		RESULT 7	
US-10-050-692-2		US-10-050-692-2		US-10-050-692-2	
Sequence 2, Application US/10050692		Sequence 2, Application US/10050692		Sequence 2, Application US/10050692	
Publication No. US20020182205A1		Publication No. US20020182205A1		Publication No. US20020182205A1	
GENERAL INFORMATION:					

; SEQ ID NO 606  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens

; FEATURE:  
; OTHER INFORMATION: sequence located in C2 at 674-683 and may interact with Sequence  
; OTHER INFORMATION: this patent.  
US-09-572-404B-606

Query Match 57.6%; Score 34; DB 10; Length 10;

Best Local Similarity 71.4%; Pred. No. 63;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CEGDSGG 7

Db 2 CKGESGG 8

RESULT 10

US-09-572-404B-3584  
; Sequence 3584, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:

; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: Protpatent version 1.0  
; SEQ ID NO 3584  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens

; FEATURE:  
; OTHER INFORMATION: sequence located in PXR1 OR PEX5 at 811-820 and may interact with  
; OTHER INFORMATION: Sequence 3583 in this patent.  
US-09-572-404B-3584

Query Match 47.5%; Score 28; DB 10; Length 10;

Best Local Similarity 100.0%; Pred. No. 5.4e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GDSGG 7

Db 6 GDSGG 10

RESULT 11

US-09-572-404B-3784  
; Sequence 3784, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:

; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: Protpatent version 1.0  
; SEQ ID NO 3784  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens

; FEATURE:  
; OTHER INFORMATION: sequence located in ERK5 OR ERK4 at 543-552 and may interact with  
; OTHER INFORMATION: Sequence 3785 in this patent.  
US-09-572-404B-3784

Query Match 45.8%; Score 27; DB 10; Length 10;

Best Local Similarity 83.3%; Pred. No. 7.8e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GDSGGP 8  
Db 3 GASGGP 8

RESULT 12

US-09-572-404B-3785  
; Sequence 3785, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:

; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: Protpatent version 1.0  
; SEQ ID NO 3785  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens

; FEATURE:  
; OTHER INFORMATION: sequence located in ERK5 OR ERK4 at 543-552 and may interact with  
; OTHER INFORMATION: Sequence 3784 in this patent.  
US-09-572-404B-3785

Query Match 45.8%; Score 27; DB 10; Length 10;

Best Local Similarity 83.3%; Pred. No. 7.8e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GDSGGP 8

Db 3 GASGGP 8

RESULT 13

US-09-879-957-55  
; Sequence 55, Application US/09879957  
; Patent No. US20020034755A1  
; GENERAL INFORMATION:

; APPLICANT: SPARKS, Andrew B.  
; KOFFMAN, No. US20020034755A1h  
; KAY, Brian K.  
; FOWLKES, Dana M.  
; MCCONNELL, Stephen J.

; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL  
; DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND  
; USING SAME

NUMBER OF SEQUENCES: 227

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/879,957

FILING DATE: 13-Jun-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/630,915

FILING DATE: 03-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Mistrock, S. Leslie

REGISTRATION NUMBER: 18,872

REFERENCE/DOCKET NUMBER: 1101-174

TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 790-9090  
; TELEFAX: (212) 869-8864/9741  
; TELEX: 66141 PENNIE  
; INFORMATION FOR SEQ ID NO: 55:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: <Unknown>  
; TOPOLOGY: unknown  
; MOLECULE TYPE: peptide  
; FEATURE:  
; NAME/KEY: Other  
; LOCATION: 8  
; OTHER INFORMATION: Undefined  
; SEQUENCE DESCRIPTION: SEQ ID NO: 55:  
US-09-879-957-55

Query Match 42.4%; Score 25; DB 9; Length 10;  
Best Local Similarity 71.4%; Pred. No. 1.6e+03;  
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CEGDSGG 7  
Db 1 CYGDSLQ 7

## RESULT 14

US-09-572-404B-51  
; Sequence 51, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:  
; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: ProPatent version 1.0  
; SEQ ID NO 51  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; OTHER INFORMATION: sequence located in CBFA2 OR AML1 at 360-369 and may interact with  
; OTHER INFORMATION: Sequence 52 in this patent.  
US-09-572-404B-51

Query Match 42.4%; Score 25; DB 10; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 GGPF 9  
Db 7 GGPF 10

## RESULT 15

US-09-572-404B-53  
; Sequence 53, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:  
; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: ProPatent version 1.0  
; SEQ ID NO 53  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:

; OTHER INFORMATION: sequence located in CBFA2 OR AML1 at 360-369 and may interact with  
; OTHER INFORMATION: Sequence 54 in this patent.  
US-09-572-404B-53

Query Match 42.4%; Score 25; DB 10; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 GGPF 9  
Db 7 GGPF 10

Search completed: March 18, 2004, 07:26:10  
Job time : 33.5 secs



GenCore version 5.1.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2004, 07:17:04 ; Search time 33.5 Seconds  
(without alignments)  
77.300 Million cell updates/sec

Title: US-09-909-348-2

Perfect score: 50

Sequence: 1 CXGDSGGPVX 10

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 32147

Minimum DB seq length: 10

Maximum DB seq length: 10

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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2: /cgn2\_6/prodata1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/prodata1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/prodata1/pubpaa/US06\_PUBCOMB.pep.\*  
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15: /cgn2\_6/prodata1/pubpaa/US10\_PUBCOMB.pep.\*  
16: /cgn2\_6/prodata1/pubpaa/US10\_NEW\_PUB.pep.\*  
17: /cgn2\_6/prodata1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/prodata1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	46	92.0	10	9	US-09-909-348-1
2	46	92.0	10	9	US-09-909-348-2
3	46	92.0	10	9	US-09-909-122-1
4	46	92.0	10	9	US-09-909-122-2
5	46	92.0	10	13	US-10-050-692-1
6	46	92.0	10	13	US-10-050-692-2
7	46	92.0	10	13	US-10-050-688-1
8	46	92.0	10	13	US-10-050-688-2
9	32	64.0	10	10	US-09-572-404B-606
10	28	56.0	10	10	US-09-572-404B-3584
11	27	54.0	10	10	US-09-572-404B-3784
12	27	54.0	10	10	US-09-572-404B-3785
13	25	50.0	10	9	US-09-879-957-55
14	25	50.0	10	10	US-09-572-404B-174
15	25	50.0	10	10	US-09-572-404B-2027

Sequence 2033, Ap  
Sequence 2091, Ap  
Sequence 2093, Ap  
Sequence 2095, Ap  
Sequence 196, App  
Sequence 204, App  
Sequence 206, App  
Sequence 9, Appli  
Sequence 4, Appli  
Sequence 277, App  
Sequence 281, App  
Sequence 283, App  
Sequence 285, App  
Sequence 293, App  
Sequence 295, App  
Sequence 496, App  
Sequence 25, Appl  
Sequence 54, Appl  
Sequence 114, App  
Sequence 176, App  
Sequence 342, App  
Sequence 344, App  
Sequence 1306, Ap  
Sequence 2218, Ap  
Sequence 2332, Ap  
Sequence 2668, Ap  
Sequence 2798, Ap  
Sequence 3352, Ap  
Sequence 3354, Ap  
Sequence 3356, Ap

US-09-572-404B-2033  
US-09-572-404B-2091  
US-09-572-404B-2093  
US-09-572-404B-2095  
US-09-572-270A-196  
US-09-572-270A-204  
US-09-572-270A-206  
US-10-155-333-9  
US-09-572-404B-4  
US-09-572-270A-281  
US-09-572-270A-283  
US-09-572-270A-285  
US-09-572-270A-293  
US-09-572-270A-295  
US-09-573-822C-496  
US-10-008-355-25  
US-09-879-957-54  
US-09-572-404B-114  
US-09-572-404B-176  
US-09-572-404B-342  
US-09-572-404B-344  
US-09-572-404B-1306  
US-09-572-404B-2218  
US-09-572-404B-2332  
US-09-572-404B-2668  
US-09-572-404B-2798  
US-09-572-404B-3352  
US-09-572-404B-3354  
US-09-572-404B-3356

#### ALIGNMENTS

#### RESULT 1

US-09-909-348-1  
; Sequence 1, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; TITLE OF INVENTION: Of The No. US20020042373A1-Proteolytically Activated Thrombin R  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-1

Query Match 92.0%; Score 46; DB 9; Length 10;  
Best Local Similarity 80.0%; Pred. No. 0.37;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CXGDSGGPVX 10

Db 1 CEGDSGGPVV 10

#### RESULT 2

US-09-909-348-2  
; Sequence 2, Application US/09909348

Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; TITLE OF INVENTION: Of The No. US20020042373A1-Proteolytically Activated Thrombin Re  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(10)  
; OTHER INFORMATION: Xaa at position two is Glu or Gln  
; OTHER INFORMATION: Xaa at position nine is Phe, Met, Leu, His or Val  
US-09-909-348-2

Query Match 92.0%; Score 46; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.37;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
Db 1 CXGDSGGPXV 10

## RESULT 3

US-09-909-122-1  
; Sequence 1, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR FILING DATE: 2000-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-122-1

Query Match 92.0%; Score 46; DB 9; Length 10;  
Best Local Similarity 80.0%; Pred. No. 0.37;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
Db 1 CEGDSGGPFV 10

## RESULT 4

US-09-909-122-2  
; Sequence 2, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR FILING DATE: 2000-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(10)  
; OTHER INFORMATION: Xaa at position two is Glu or Gln  
; OTHER INFORMATION: Xaa at position nine is Phe, Met, Leu, His or Val  
US-09-909-122-2

Query Match 92.0%; Score 46; DB 9; Length 10;  
Best Local Similarity 100.0%; Pred. No. 0.37;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10  
Db 1 CXGDSGGPXV 10

## RESULT 5

US-10-050-692-1  
; Sequence 1, Application US/10050692  
; Publication No. US20020182205A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
; FILE REFERENCE: 3033.1002-004  
; CURRENT APPLICATION NUMBER: US/10/050,692  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,122  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: fragment of human prothrombin  
US-10-050-692-1

Query Match 92.0%; Score 46; DB 13; Length 10;  
Best Local Similarity 80.0%; Pred. No. 0.37;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 CXGDSGGPXV 10

```
Db 1 CEGDSGGPFV 10
| | | | | | | |
RESULT 6
US-10-050-692-2
; Sequence 2, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jiaoping
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; TITLE OF INVENTION: PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of prothrombin
; NAME/KEY: VARIANT
; LOCATION: (2)...(2)
; OTHER INFORMATION: Xaa = Glu or Gln
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (9)...(9)
; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val
US-10-050-692-2
Query Match 92.0%; Score 46; DB 13; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CXGDSGGPFV 10
| | | | | | | |
Db 1 CXGDSGGPFV 10
| | | | | | | |
RESULT 7
US-10-050-688-1
; Sequence 1, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: VARIANT
; LOCATION: (2)...(2)
; OTHER INFORMATION: Xaa = Glu or Gln
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (9)...(9)
; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val
US-10-050-688-1
Query Match 92.0%; Score 46; DB 13; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CXGDSGGPFV 10
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Db 1 CXGDSGGPFV 10
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RESULT 8
US-10-050-688-2
; Sequence 2, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
; NAME/KEY: VARIANT
; LOCATION: (2)...(2)
; OTHER INFORMATION: Xaa = Glu or Gln
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (9)...(9)
; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val
US-10-050-688-2
Query Match 92.0%; Score 46; DB 13; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.37;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CXGDSGGPFV 10
| | | | | | | |
Db 1 CXGDSGGPFV 10
| | | | | | | |
RESULT 9
US-09-572-404B-606
; Sequence 606, Application US/09572404B
; Publication No. US20030078374A1
; GENERAL INFORMATION:
; APPLICANT: Proteom Ltd
; TITLE OF INVENTION: Complementary peptide ligands from the human genome
; FILE REFERENCE: Human patent
; CURRENT APPLICATION NUMBER: US/09/572,404B
; CURRENT FILING DATE: 2000-05-17
; NUMBER OF SEQ ID NOS: 4203
; SOFTWARE: ProtPatent version 1.0
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; SEQ ID NO 606  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; OTHER INFORMATION: sequence located in C2 at 574-683 and may interact with Sequence  
; OTHER INFORMATION: this patent.  
US-09-572-404B-606

Query Match 64.0%; Score 32; DB 10; Length 10;  
Best Local Similarity 71.4%; Pred. No. 71;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 CXGDSGG 7  
|:|:|  
Db 2 CKGESGG 8

## RESULT 10

US-09-572-404B-3584  
; Sequence 3584, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:  
; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: ProtPatent version 1.0  
; SEQ ID NO 3584  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; OTHER INFORMATION: sequence located in PXR1 OR PEX5 at 811-820 and may interact with  
; OTHER INFORMATION: Sequence 3583 in this patent.  
US-09-572-404B-3584

Query Match 56.0%; Score 28; DB 10; Length 10;  
Best Local Similarity 100.0%; Pred. No. 3.2e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GDSGG 7  
|:|:|  
Db 6 GDSGG 10

## RESULT 11

US-09-572-404B-3784  
; Sequence 3784, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:  
; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: ProtPatent version 1.0  
; SEQ ID NO 3784  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; OTHER INFORMATION: sequence located in ERK5 OR ERK4 at 543-552 and may interact with  
; OTHER INFORMATION: Sequence 3785 in this patent.  
US-09-572-404B-3784

Query Match 54.0%; Score 27; DB 10; Length 10;  
Best Local Similarity 83.3%; Pred. No. 4.7e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GDSGGP 8  
|:|:|  
Db 3 GASGGP 8

## RESULT 12

US-09-572-404B-3785  
; Sequence 3785, Application US/09572404B  
; Publication No. US20030078374A1  
; GENERAL INFORMATION:  
; APPLICANT: Proteom Ltd  
; TITLE OF INVENTION: Complementary peptide ligands from the human genome  
; FILE REFERENCE: Human patent  
; CURRENT APPLICATION NUMBER: US/09/572,404B  
; CURRENT FILING DATE: 2000-05-17  
; NUMBER OF SEQ ID NOS: 4203  
; SOFTWARE: ProtPatent version 1.0  
; SEQ ID NO 3785  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
; FEATURE:  
; OTHER INFORMATION: sequence located in ERK5 OR ERK4 at 543-552 and may interact with  
; OTHER INFORMATION: Sequence 3784 in this patent.  
US-09-572-404B-3785

Query Match 54.0%; Score 27; DB 10; Length 10;  
Best Local Similarity 83.3%; Pred. No. 4.7e+02;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GDSGGP 8  
|:|:|  
Db 3 GASGGP 8

## RESULT 13

US-09-879-957-55  
; Sequence 55, Application US/09879957  
; Patent No. US20020034755A1  
; GENERAL INFORMATION:  
; APPLICANT: SPARKS, Andrew B.  
; HOFFMAN, No. US20020034755A1h  
; KAY, Brian K.  
; FOWLKES, Dana M.  
; MCCONNELL, Stephen J.  
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL  
; DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND  
; USING SAME  
; NUMBER OF SEQUENCES: 227  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Pennie & Edmonds LLP  
; STREET: 1155 Avenue of the Americas  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10036-2711  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/879,957  
; FILING DATE: 13-Jun-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/630,915  
; FILING DATE: 03-APR-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mistrock, S. Leslie  
; REGISTRATION NUMBER: 18,872  
; REFERENCE/DOCKET NUMBER: 1101-174  
; TELECOMMUNICATION INFORMATION:



TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-8864/9741  
TELEX: 66141 PERNIE  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 10 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: unknown  
MOLECULE TYPE: peptide  
FEATURE:  
NAME/KEY: Other  
LOCATION: 8  
OTHER INFORMATION: Undefined  
SEQUENCE DESCRIPTION: SEQ ID NO: 55:  
US-09-879-957-55

Query Match 52.0%; Score 26; DB 9; Length 10;  
Best Local Similarity 71.4%; Pred. No. 6.8e+02;  
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1 CXGDSGG 7  
DB 1 CMGDSL 7

RESULT 14  
US-09-572-404B-174  
Sequence 174, Application US/09572404B  
Publication No. US20030078374A1  
GENERAL INFORMATION:  
APPLICANT: Proteom Ltd  
TITLE OF INVENTION: Complementary peptide ligands from the human genome  
FILE REFERENCE: Human patent  
CURRENT APPLICATION NUMBER: US/09/572,404B  
CURRENT FILING DATE: 2000-05-17  
NUMBER OF SEQ ID NOS: 4203  
SOFTWARE: Protpatent version 1.0  
SEQ ID NO 174  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Homo Sapiens  
FEATURE:  
OTHER INFORMATION: sequence located in EPB4 OR HTK at 974-983 and may interact with  
OTHER INFORMATION: Sequence 173 in this patent.  
US-09-572-404B-174

Query Match 50.0%; Score 25; DB 10; Length 10;  
Best Local Similarity 66.7%; Pred. No. 9.9e+02;  
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
QY 3 GDSGGP 8  
DB 5 GGTGGP 10

RESULT 15  
US-09-572-404B-2027  
Sequence 2027, Application US/09572404B  
Publication No. US20030078374A1  
GENERAL INFORMATION:  
APPLICANT: Proteom Ltd  
TITLE OF INVENTION: Complementary peptide ligands from the human genome  
FILE REFERENCE: Human patent  
CURRENT APPLICATION NUMBER: US/09/572,404B  
CURRENT FILING DATE: 2000-05-17  
NUMBER OF SEQ ID NOS: 4203  
SOFTWARE: Protpatent version 1.0  
SEQ ID NO 2027  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Homo Sapiens  
FEATURE:

OTHER INFORMATION: sequence located in CNTFR at 340-349 and may interact with Sequer  
OTHER INFORMATION: in this patent.  
US-09-572-404B-2027  
Query Match 50.0%; Score 25; DB 10; Length 10;  
Best Local Similarity 66.7%; Pred. No. 9.9e+02;  
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 3 GDSGGP 8  
DB 2 GSGGGP 7  
Search completed: March 18, 2004, 07:26:10  
Job time : 33.5 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2004, 07:17:54 ; Search time 39 Seconds  
(without alignments)  
26.560 Million cell updates/sec

Title: US-09-909-348-3

Perfect score: 21

Sequence: 1 RGDA 4

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 5333

Minimum DB seq length: 4

Maximum DB seq length: 4

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata1/pubpaa/US07\_NEW\_PUB.pep.\*  
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17: /cgn2\_6/ptodata1/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	4	9 US-09-909-348-3	Sequence 3, Appli
2	21	100.0	4	9 US-09-904-090-1	Sequence 1, Appli
3	21	100.0	4	9 US-09-909-122-3	Sequence 3, Appli
4	21	100.0	4	10 US-09-911-569-23	Sequence 23, Appli
5	21	100.0	4	13 US-10-050-692-3	Sequence 3, Appli
6	21	100.0	4	13 US-10-050-611-1	Sequence 1, Appli
7	21	100.0	4	13 US-10-050-688-3	Sequence 3, Appli
8	21	100.0	4	14 US-10-200-879-23	Sequence 23, Appli
9	18	85.7	4	9 US-09-823-444-6	Sequence 6, Appli
10	18	85.7	4	9 US-09-010-714-9	Sequence 9, Appli
11	18	85.7	4	9 US-09-925-715-21	Sequence 21, Appli
12	18	85.7	4	9 US-09-935-168-1	Sequence 1, Appli
13	18	85.7	4	9 US-09-942-117-5	Sequence 5, Appli
14	18	85.7	4	10 US-09-911-569-22	Sequence 22, Appli
15	18	85.7	4	11 US-09-991-588B-23	Sequence 23, Appli

16 85.7 4 12 US-10-169-085-23 Sequence 23, Appli  
17 18 85.7 4 14 US-10-046-801-4 Sequence 4, Appli  
18 18 85.7 4 14 US-10-215-435-5 Sequence 5, Appli  
19 18 85.7 4 14 US-10-200-879-22 Sequence 22, Appli  
20 18 85.7 4 14 US-10-021-660-130 Sequence 130, App  
21 18 85.7 4 14 US-10-299-043-1 Sequence 1, Appli  
22 18 85.7 4 14 US-10-300-694A-96 Sequence 96, Appli  
23 18 85.7 4 14 US-10-405-339-60 Sequence 60, Appli  
24 18 85.7 4 14 US-10-279-733-17 Sequence 17, Appli  
25 18 85.7 4 15 US-10-237-229-39 Sequence 39, Appli  
26 18 85.7 4 15 US-10-441-365-11 Sequence 11, Appli  
27 18 85.7 4 16 US-10-208-894A-2 Sequence 2, Appli  
28 17 81.0 4 9 US-09-892-071-4 Sequence 4, Appli  
29 17 81.0 4 9 US-09-051-603-173 Sequence 173, App  
30 17 81.0 4 9 US-09-051-603-175 Sequence 175, App  
31 17 81.0 4 9 US-09-961-834-4 Sequence 4, Appli  
32 17 81.0 4 9 US-09-961-834-5 Sequence 5, Appli  
33 17 81.0 4 9 US-09-765-614B-1 Sequence 1, Appli  
34 17 81.0 4 9 US-09-925-715-4 Sequence 4, Appli  
35 17 81.0 4 9 US-09-972-772-32 Sequence 32, Appli  
36 17 81.0 4 10 US-09-911-569-16 Sequence 16, Appli  
37 17 81.0 4 10 US-09-911-569-18 Sequence 18, Appli  
38 17 81.0 4 10 US-09-911-569-19 Sequence 19, Appli  
39 17 81.0 4 10 US-09-911-569-20 Sequence 20, Appli  
40 17 81.0 4 10 US-09-911-569-21 Sequence 21, Appli  
41 17 81.0 4 11 US-09-991-588B-1 Sequence 1, Appli  
42 17 81.0 4 11 US-09-991-588B-2 Sequence 2, Appli  
43 17 81.0 4 13 US-10-001-945-32 Sequence 32, Appli  
44 17 81.0 4 14 US-10-215-435-7 Sequence 7, Appli  
45 17 81.0 4 14 US-10-215-435-10 Sequence 10, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-909-348-3  
; Sequence 3, Application US/0909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:

; APPLICANT: Carney, Darrell H.

; APPLICANT: Crowther, Roger S.

; APPLICANT: Stierberg, Janet

; APPLICANT: Bergmann, John

; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists

; FILE REFERENCE: Of The No. US20020042373A1-Proteolytically Activated Thrombin R

; CURRENT FILING DATE: 2001-07-19

; PRIOR APPLICATION NUMBER: US/09/909,348

; PRIOR FILING DATE: 2000-07-20

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 4

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Peptide fragment of Thrombin

US-09-909-348-3

Query Match 100.0%; Score 21; DB 9; Length 4;  
Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4

DB 1 RGDA 4

RESULT 2

US-09-904-090-1

; Sequence 1, Application US/09904090

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; Patent No. US20020061852A1
; GENERAL INFORMATION: Darrell
; APPLICANT: Carney, Darrell
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-001
; CURRENT APPLICATION NUMBER: US/09/904,090
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Polypeptide, fragment of thrombin
US-09-904-090-1

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Query Match 100.0%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 RGDA 4
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Db 1 RGDA 4

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RESULT 3
US-09-909-122-3
; Sequence 3, Application US/09909122
; Patent No. US20020128202A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinning
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin
; TITLE OF INVENTION: Peptide Derivatives
; FILE REFERENCE: 3033.1002-001
; CURRENT APPLICATION NUMBER: US/09/909,122
; CURRENT FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Peptide fragment of Thrombin
US-09-909-122-3

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```

Query Match 100.0%; Score 21; DB 9; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 RGDA 4
    ||||
Db 1 RGDA 4

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RESULT 4
US-09-911-569-23
; Sequence 23, Application US/09911569
; Publication No. US20030069173A1
; GENERAL INFORMATION:
; APPLICANT: HAWLEY-NELSON, PAMELA
; LAN, JIANQING
; SHIH, POJEN

```

```

; JESSE, JOEL A.
; SCHIFFERLI, KEVIN P.
; GEBREYEHU, GULILAT
; TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
; NUMBER OF SEQUENCES: 120
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GREENLEE, WINNER & SULLIVAN
; STREET: 5370 MANHATTAN CIRCLE, SUITE 201
; CITY: BOULDER
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/911,569
; FILING DATE: 23-Jul-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/039,780
; FILING DATE: 16-MAR-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: SULLIVAN, SALLY A.
; REGISTRATION NUMBER: 32,064
; REFERENCE/DOCKET NUMBER: 32-95D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303)499-8080
; TELEFAX: (303)499-8089
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-911-569-23

Query Match 100.0%; Score 21; DB 10; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
    ||||
Db 1 RGDA 4

RESULT 5
US-10-050-692-3
; Sequence 3, Application US/10050692
; Publication No. US20020182205A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Simmons, David J.
; APPLICANT: Yang, Jinning
; APPLICANT: Redin, William R.
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN
; TITLE OF INVENTION: PEPTIDE DERIVATIVES
; FILE REFERENCE: 3033.1002-004
; CURRENT APPLICATION NUMBER: US/10/050,692
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,300
; PRIOR FILING DATE: 2000-07-19
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0

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; SEQ ID NO 3
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fragment of human prothrombin
US-10-050-692-3

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
   ||||
Db 1 RGDA 4

RESULT 6
US-10-050-611-1
; Sequence 1, Application US/10050611
; Publication No. US20020187933A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; TITLE OF INVENTION: METHODS OF THERAPY WITH THROMBIN DERIVED
; TITLE OF INVENTION: PEPTIDES
; FILE REFERENCE: 3033.1000-008
; CURRENT APPLICATION NUMBER: US/10/050,611
; PRIOR FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/904,090
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/217,583
; PRIOR FILING DATE: 2000-07-12
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: human fragment of thrombin
US-10-050-611-1

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
   ||||
Db 1 RGDA 4

RESULT 7
US-10-050-688-3
; Sequence 3, Application US/10050688
; Publication No. US20020198154A1
; GENERAL INFORMATION:
; APPLICANT: Carney, Darrell H.
; APPLICANT: Crowther, Roger S.
; APPLICANT: Stierberg, Janet
; APPLICANT: Bergmann, John
; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH
; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN
; TITLE OF INVENTION: RECEPTOR
; FILE REFERENCE: 3033.1003-004
; CURRENT APPLICATION NUMBER: US/10/050,688
; CURRENT FILING DATE: 2002-01-16
; PRIOR APPLICATION NUMBER: 09/909,348
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: 60/219,800
; PRIOR FILING DATE: 2000-07-20
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
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; LENGTH: 4
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: peptide fragment of thrombin
US-10-050-688-3

Query Match      100.0%; Score 21; DB 13; Length 4;
Best Local Similarity 100.0%; Pred. No. 9.5e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDA 4
   ||||
Db 1 RGDA 4

RESULT 8
US-10-200-879-23
; Sequence 23, Application US/10200879
; Publication No. US20030144230A1
; GENERAL INFORMATION:
; APPLICANT: HAWLEY-NELSON, PAMELA
; APPLICANT: LAN, JIANQING
; APPLICANT: SHIH, POJEN
; APPLICANT: JESSE, JOEL A.
; APPLICANT: SCHIFFERLI, KEVIN P.
; APPLICANT: GEBEYERU, GULILAT
; TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
; NUMBER OF SEQUENCES: 120
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GREENLEE, WINNER & SULLIVAN
; STREET: 5370 MANHATTAN CIRCLE, SUITE 201
; CITY: BOULDER
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/200,879
; FILING DATE: 23-Jul-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/911,569
; FILING DATE: 23-JUL-2001
; APPLICATION NUMBER: US 09/039,780
; FILING DATE: 16-MAR-1998
; APPLICATION NUMBER: US 08/818,200
; FILING DATE: 14-MAR-1997
; APPLICATION NUMBER: US 08/658,130
; FILING DATE: 04-JUN-1996
; APPLICATION NUMBER: US 08/477,354
; FILING DATE: 07-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: SULLIVAN, SALLY A.
; REGISTRATION NUMBER: 32,064
; REFERENCE/DOCKET NUMBER: 32-95E
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303)499-8080
; TELEFAX: (303)499-8089
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:
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## US-10-200-879-23

Query Match 100.0%; Score 21; DB 14; Length 4;  
Best Local Similarity 100.0%; Pred. No. 9.5e+05;  
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
|||  
Db 1 RGDA 4

## RESULT 9

US-09-823-444-6  
; Sequence 6, Application US/09823444  
; Patent No. US20020009753A1  
; GENERAL INFORMATION:  
; APPLICANT: Bednar, Bohumil  
; APPLICANT: Bollag, Daniel M.  
; APPLICANT: Gould, Robert J.  
; APPLICANT: Merck & Co., Inc.  
; TITLE OF INVENTION: ANTICOAGULANT TEST  
; FILE REFERENCE: 19910  
; CURRENT APPLICATION NUMBER: US/09/823,444  
; CURRENT FILING DATE: 2001-03-30  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: This sequence is a synthetically prepared peptide.  
US-09-823-444-6

Query Match 85.7%; Score 18; DB 9; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
|||  
Db 1 RGDS 4

## RESULT 10

US-09-010-714-9  
; Sequence 9, Application US/09010714  
; Patent No. US20020012942A1  
; GENERAL INFORMATION:  
; APPLICANT: McCarthy, James B.  
; APPLICANT: Furcht, Leo T.  
; APPLICANT: Iida, Joji  
; TITLE OF INVENTION: POLYPEPTIDES WITH ALPHA 4 INTEGRIN SUBUNIT RELATED  
; TITLE OF INVENTION: ACTIVITY  
; FILE REFERENCE: 600.332US01  
; CURRENT APPLICATION NUMBER: US/09/010,714  
; CURRENT FILING DATE: 1998-01-22  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 9  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-010-714-9

Query Match 85.7%; Score 18; DB 9; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
|||  
Db 1 RGDS 4

## RESULT 11

US-09-925-715-21  
; Sequence 21, Application US/09925715  
; Patent No. US20020102217A1  
; GENERAL INFORMATION:  
; APPLICANT: Nycomed Imaging AS  
; TITLE OF INVENTION: Improvements in or relating to diagnostic/therapeutic  
; FILE REFERENCE: REF/Klaveness/206  
; CURRENT APPLICATION NUMBER: US/09/925,715  
; CURRENT FILING DATE: 2001-08-10  
; NUMBER OF SEQ ID NOS: 27  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 21  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RGDS  
; OTHER INFORMATION: sequence  
US-09-925-715-21

Query Match 85.7%; Score 18; DB 9; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
|||  
Db 1 RGDS 4

## RESULT 12

US-09-935-168-1  
; Sequence 1, Application US/09935168  
; Patent No. US20020106793A1  
; GENERAL INFORMATION:  
; APPLICANT: West, Jennifer L.  
; APPLICANT: Mann, Brenda K.  
; TITLE OF INVENTION: Tissue Engineering Scaffolds Promoting Matrix Protein Production  
; FILE REFERENCE: RICE 103  
; CURRENT APPLICATION NUMBER: US/09/935,168  
; CURRENT FILING DATE: 2001-08-21  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: artificial sequence  
; FEATURE:  
; OTHER INFORMATION: cell adhesion ligand  
US-09-935-168-1

Query Match 85.7%; Score 18; DB 9; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 RGDA 4  
|||  
Db 1 RGDS 4

## RESULT 13

US-09-942-117-5  
; Sequence 5, Application US/09942117  
; Publication No. US20020197700A1  
; GENERAL INFORMATION:  
; APPLICANT: MENEAD, ANDREAS  
; APPLICANT: REDLITZ, ALEXANDER  
; APPLICANT: KOPPLITZ, MARCUS  
; APPLICANT: EGNER, URSULA  
; APPLICANT: BAHR, INKE  
; TITLE OF INVENTION: RECEPTOR OF THE EDB-FIBRONECTIN DOMAINS  
; FILE REFERENCE: SCH-1832

; CURRENT APPLICATION NUMBER: US/09/942,117  
; CURRENT FILING DATE: 2002-06-24  
; PRIOR APPLICATION NUMBER: DE 10045803.3  
; PRIOR FILING DATE: 2000-09-07  
; PRIOR APPLICATION NUMBER: DE 10123133.4-41  
; PRIOR FILING DATE: 2001-05-20  
; NUMBER OF SEQ ID NOS: 22  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
; OTHER INFORMATION: peptide  
US-09-942-117-5  
  
Query Match 85.7%; Score 18; DB 9; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RGDA 4  
|||  
Db 1 RGDS 4  
  
RESULT 14  
US-09-911-569-22  
; Sequence 22, Application US/09911569  
; Publication No. US20030069173A1  
; GENERAL INFORMATION:  
; APPLICANT: HAWLEY-NELSON, PAMELA  
; LAN, JIANQING  
; SHIH, POJEN  
; JESSE, JOEL A.  
; SCHIFFERLI, KEVIN P.  
; GEBREYEHU, GULILAT  
; TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS  
; NUMBER OF SEQUENCES: 120  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: GREENLEE, WINNER & SULLIVAN  
; STREET: 5370 MANHATTAN CIRCLE, SUITE 201  
; CITY: BOULDER  
; STATE: CO  
; COUNTRY: US  
; ZIP: 80303  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/911,569  
; FILING DATE: 23-Jul-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 09/039,780  
; FILING DATE: 16-MAR-1998  
; ATTORNEY/AGENT INFORMATION:  
; NAME: SULLIVAN, SALLY A.  
; REGISTRATION NUMBER: 32,064  
; REFERENCE/DOCKET NUMBER: 32-95D  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (303)499-8080  
; TELEFAX: (303)499-8089  
; INFORMATION FOR SEQ ID NO: 22:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO

; ANTI-SENSE: NO  
; SEQUENCE DESCRIPTION: SEQ ID NO: 22:  
US-09-911-569-22  
  
Query Match 85.7%; Score 18; DB 10; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RGDA 4  
|||  
Db 1 RGDS 4  
  
RESULT 15  
US-09-991-588B-23  
; Sequence 23, Application US/09991588B  
; Publication No. US20030219429A1  
; GENERAL INFORMATION:  
; APPLICANT: Budny, John A.  
; TITLE OF INVENTION: Compositionand Method for Bone Regeneration  
; FILE REFERENCE: 1008-120.US  
; CURRENT APPLICATION NUMBER: US/09/991,588B  
; CURRENT FILING DATE: 2001-11-21  
; PRIOR APPLICATION NUMBER: US 09/122,348  
; PRIOR FILING DATE: 1998-07-24  
; NUMBER OF SEQ ID NOS: 23  
; SEQ ID NO 23  
; LENGTH: 4  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Purchased commercially or sequence is synthesized  
US-09-991-588B-23  
  
Query Match 85.7%; Score 18; DB 11; Length 4;  
Best Local Similarity 75.0%; Pred. No. 9.5e+05;  
Matches 3; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 RGDA 4  
|||  
Db 1 RGDS 4  
  
Search completed: March 18, 2004, 07:27:02  
Job time : 40 secs





GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: March 18, 2004, 07:21:00 ; Search time 39 Seconds  
(without alignments)  
92.958 Million cell updates/sec

Title: US-09-909-348-4

Perfect score: 71  
Sequence: 1 RGDCKGDSGGFPXV 14

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 7224

Minimum DB seq length: 14  
Maximum DB seq length: 14

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
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16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
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18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	67	94.4	14	9	US-09-909-122-4
2	67	94.4	14	13	US-10-050-692-4
3	67	94.4	14	13	US-10-050-688-4
4	52	73.2	14	9	US-09-885-441-6
5	32	45.1	14	10	US-09-300-4258-20
6	32	45.1	14	14	US-10-321-558-31
7	30	42.3	14	15	US-10-341-979-8
8	27	38.0	14	10	US-09-880-748-3215
9	25	35.2	14	9	US-09-815-837-109
10	25	35.2	14	10	US-09-852-455-34
11	25	35.2	14	10	US-09-852-455-35
12	25	35.2	14	10	US-09-852-455-36
13	25	35.2	14	10	US-09-852-455-37
14	25	35.2	14	10	US-09-852-455-38
15	25	35.2	14	10	US-09-880-748-3218

Sequence 16, Appl  
Sequence 10, Appl  
Sequence 170, App  
Sequence 173, App  
Sequence 92, Appl  
Sequence 195, App  
Sequence 23, Appl  
Sequence 33, Appl  
Sequence 8, Appl  
Sequence 14, Appl  
Sequence 13, Appl  
Sequence 18, App  
Sequence 93, Appl  
Sequence 97, Appl  
Sequence 1017, Ap  
Sequence 15, Appl  
Sequence 84, Appl  
Sequence 320, App  
Sequence 11, Appl  
Sequence 77, Appl  
Sequence 108, App  
Sequence 29, Appl  
Sequence 16, Appl  
Sequence 158, App  
Sequence 63, Appl  
Sequence 1, Appl  
Sequence 5, Appl  
Sequence 123, App  
Sequence 9, Appl

US-09-909-122-4  
; Sequence 4, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jingping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; TYPE: PRT  
; LENGTH: 14  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(14)  
; OTHER INFORMATION: Xaa at position six is Glu or Gin  
; OTHER INFORMATION: Xaa at position thirteen is Phe, Met, Leu, His or Val  
US-09-909-122-4

## ALIGNMENTS

## RESULT 1

US-09-909-122-4  
; Sequence 4, Application US/09909122  
; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jingping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; TYPE: PRT  
; LENGTH: 14  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(14)  
; OTHER INFORMATION: Xaa at position six is Glu or Gin  
; OTHER INFORMATION: Xaa at position thirteen is Phe, Met, Leu, His or Val  
US-09-909-122-4

Query Match 94.4%; Score 67; DB 9; Length 14;  
Best Local Similarity 100.0%; Pred. No. 0.00088;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDCKGDSGGFPXV 14  
|||||  
Db 1 RGDCKGDSGGFPXV 14

RESULT 2  
 US-10-050-692-4  
 ; Sequence 4, Application US/10050692  
 ; Publication No. US2002018205A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Carney, Darrell H.  
 ; APPLICANT: Crowther, Roger S.  
 ; APPLICANT: Simmons, David J.  
 ; APPLICANT: Yang, Jinping  
 ; APPLICANT: Redin, William R.  
 ; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
 ; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
 ; FILE REFERENCE: 3033.1002-004  
 ; CURRENT APPLICATION NUMBER: US/10/050,692  
 ; CURRENT FILING DATE: 2002-01-16  
 ; PRIOR APPLICATION NUMBER: 09/909,122  
 ; PRIOR FILING DATE: 2001-07-19  
 ; PRIOR APPLICATION NUMBER: 60/219,300  
 ; PRIOR FILING DATE: 2000-07-19  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 14  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: fragment of human prothrombin  
 ; NAME/KEY: VARIANT  
 ; LOCATION: (6)...(6)  
 ; OTHER INFORMATION: Xaa = Glu or Gln  
 ; FEATURE:  
 ; NAME/KEY: VARIANT  
 ; LOCATION: (13)...(13)  
 ; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val  
 US-10-050-692-4

Query Match 94.4%; Score 67; DB 13; Length 14;  
 Best Local Similarity 100.0%; Pred. No. 0.00088;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14  
 DB 1 RGDACXGDSGGPXV 14

RESULT 3  
 US-10-050-688-4  
 ; Sequence 4, Application US/10050688  
 ; Publication No. US20020198154A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Carney, Darrell H.  
 ; APPLICANT: Crowther, Roger S.  
 ; APPLICANT: Stierberg, Janet  
 ; APPLICANT: Bergmann, John  
 ; TITLE OF INVENTION: STIMULATION OF CARTILAGE GROWTH WITH  
 ; TITLE OF INVENTION: AGONISTS OF THE NON-PROTEOLYTICALLY ACTIVATED THROMBIN  
 ; TITLE OF INVENTION: RECEPTOR  
 ; FILE REFERENCE: 3033.1003-004  
 ; CURRENT APPLICATION NUMBER: US/10/050,688  
 ; CURRENT FILING DATE: 2002-01-16  
 ; PRIOR APPLICATION NUMBER: 09/909,348  
 ; PRIOR FILING DATE: 2001-07-19  
 ; PRIOR APPLICATION NUMBER: 60/219,800  
 ; PRIOR FILING DATE: 2000-07-20  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 14  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence

; FEATURE:  
 ; OTHER INFORMATION: peptide fragment of thrombin  
 ; FEATURE:  
 ; NAME/KEY: VARIANT  
 ; LOCATION: (6)...(6)  
 ; OTHER INFORMATION: Xaa = Glu or Gln  
 ; FEATURE:  
 ; NAME/KEY: VARIANT  
 ; LOCATION: (13)...(13)  
 ; OTHER INFORMATION: Xaa = Phe, Met, Leu, His or Val  
 US-10-050-688-4

Query Match 94.4%; Score 67; DB 13; Length 14;  
 Best Local Similarity 100.0%; Pred. No. 0.00088;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 RGDACXGDSGGPXV 14  
 DB 1 RGDACXGDSGGPXV 14

RESULT 4  
 US-09-885-441-6  
 ; Sequence 6, Application US/09885441  
 ; Patent No. US20020146407A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Xiao, Yonghong  
 ; TITLE OF INVENTION: Regulation of Human Eosinophil Serine  
 ; TITLE OF INVENTION: Protease-1-Like Enzyme  
 ; FILE REFERENCE: 04974.00512  
 ; CURRENT APPLICATION NUMBER: US/09/885,441  
 ; CURRENT FILING DATE: 2001-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/212,844  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/244,171  
 ; PRIOR FILING DATE: 2000-10-31  
 ; PRIOR APPLICATION NUMBER: US 60/279,766  
 ; PRIOR FILING DATE: 2001-03-30  
 ; PRIOR APPLICATION NUMBER: PCT/  
 ; PRIOR FILING DATE: 2001-06-20  
 ; NUMBER OF SEQ ID NOS: 58  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 6  
 ; LENGTH: 14  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: BLOCKS domain  
 US-09-885-441-6

Query Match 73.2%; Score 52; DB 9; Length 14;  
 Best Local Similarity 75.0%; Pred. No. 0.18;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 DACXGDSGGPXV 14  
 DB 2 DTCKGDSGGPLV 13

RESULT 5  
 US-09-300-425B-20  
 ; Sequence 20, Application US/09300425B  
 ; Publication No. US20030045681A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: NERI, Dario  
 ; APPLICANT: TALLI, Lorenzo  
 ; APPLICANT: VITTI, Francesca  
 ; APPLICANT: BIRCHLER, Manfred  
 ; TITLE OF INVENTION: SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES  
 ; TITLE OF INVENTION: CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF  
 ; TITLE OF INVENTION: ANGIOGENESIS  
 ; FILE REFERENCE: SCH-1733P1  
 ; CURRENT APPLICATION NUMBER: US/09/300,425B

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; CURRENT FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/075,338
; PRIOR FILING DATE: 1999-05-11
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 20
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: antibody linker
US-09-300-425B-20

Query Match          45.1%; Score 32; DB 10; Length 14;
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY  2 GDACXGDSGG 11
    |||
Db   1 GDGSSGSGGG 10

RESULT 6
US-10-321-558-31
; Sequence 31, Application US/10321558
; Publication No. US2003017663A1
; GENERAL INFORMATION:
; APPLICANT: NERI, DARIO
; APPLICANT: TARLI, LORENZO
; APPLICANT: VITI, FRANCESCO
; TITLE OF INVENTION: SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY
; FILE REFERENCE: NOTAR-1 C1
; CURRENT APPLICATION NUMBER: US/10/321,558
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: 09/512,082
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 09/300,425
; PRIOR FILING DATE: 1999-04-28
; PRIOR APPLICATION NUMBER: 09/075,338
; PRIOR FILING DATE: 1998-05-11
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: linker sequence
US-10-321-558-31

Query Match          45.1%; Score 32; DB 14; Length 14;
Best Local Similarity 60.0%; Pred. No. 2e+02;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY  2 GDACXGDSGG 11
    |||
Db   1 GDGSSGSGGG 10

RESULT 7
US-10-341-979-8
; Sequence 8, Application US/10341979
; Publication No. US20040002128A1
; GENERAL INFORMATION:
; APPLICANT: Hong Kong University of Science & Technology
; APPLICANT: Chang, Donald Choy
; APPLICANT: Luc, Qian Kathy
; TITLE OF INVENTION: GFP-BASED METHODS FOR DETECTING APOPTOSIS
; FILE REFERENCE: 3214183-1
; CURRENT APPLICATION NUMBER: US/10/341,979
; CURRENT FILING DATE: 2003-01-11

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; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 14
; TYPE: PRT
; ORGANISM: mammalian
US-10-341-979-8

Query Match          42.3%; Score 30; DB 15; Length 14;
Best Local Similarity 60.0%; Pred. No. 4.1e+02;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY  2 GDACXGDSGG 11
    |||
Db   5 GDEVDGSGGG 14

RESULT 8
US-09-880-748-3215
; Sequence 3215, Application US/09880748
; Publication No. US20030059937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PFS23
; CURRENT APPLICATION NUMBER: US/09/880,748
; CURRENT FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3215
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-880-748-3215

Query Match          38.0%; Score 27; DB 10; Length 14;
Best Local Similarity 83.3%; Pred. No. 1.2e+03;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY  7 GDSGGP 12
    |||||
Db   7 GDSGPP 12

RESULT 9
US-09-815-837-109
; Sequence 109, Application US/09815837
; Patent No. US20020082411A1
; GENERAL INFORMATION:
; APPLICANT: Carter, Darrick
; APPLICANT: Zhu, Shirley
; APPLICANT: Arimilli, Subhashini
; APPLICANT: Wang, Aijun
; APPLICANT: Corixa Corporation
; TITLE OF INVENTION: Immune Mediators and Related Methods
; FILE REFERENCE: 014058-00567005
; CURRENT APPLICATION NUMBER: US/09/815,837
; CURRENT FILING DATE: 2001-03-22
; PRIOR APPLICATION NUMBER: US 60/191,274
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: US 60/204,249
; PRIOR FILING DATE: 2000-05-15
; PRIOR APPLICATION NUMBER: US 60/264,003

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; PRIOR FILING DATE: 2001-01-23  
; NUMBER OF SEQ ID NOS: 129  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 109  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: downstream  
; OTHER INFORMATION: linker for CO580 and CO587  
US-09-815-837-109

Query Match 35.2%; Score 25; DB 9; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;  
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 7 GSGGGP 12

RESULT 10  
US-09-852-455-34  
; Sequence 34, Application US/09852455  
; Publication No. US20030054348A1  
; GENERAL INFORMATION:  
; APPLICANT: BLUME, ARTHUR J.  
; APPLICANT: GOLDSTEIN, NEIL  
; APPLICANT: PILLUTA, RENUKA  
; APPLICANT: HSIAO, KU-CHUAN  
; APPLICANT: PRENDERGAST, JOHN  
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS  
; FILE REFERENCE: 2598-4004US1  
; CURRENT APPLICATION NUMBER: US/09/852,455  
; CURRENT FILING DATE: 2001-05-09  
; PRIOR APPLICATION NUMBER: 60/202,912  
; PRIOR FILING DATE: 2000-05-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 34  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Bos taurus  
US-09-852-455-34

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;  
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 1 GELGGP 6

RESULT 11  
US-09-852-455-35  
; Sequence 35, Application US/09852455  
; Publication No. US20030054348A1  
; GENERAL INFORMATION:  
; APPLICANT: BLUME, ARTHUR J.  
; APPLICANT: GOLDSTEIN, NEIL  
; APPLICANT: PILLUTA, RENUKA  
; APPLICANT: HSIAO, KU-CHUAN  
; APPLICANT: PRENDERGAST, JOHN  
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS  
; FILE REFERENCE: 2598-4004US1  
; CURRENT APPLICATION NUMBER: US/09/852,455  
; CURRENT FILING DATE: 2001-05-09  
; PRIOR APPLICATION NUMBER: 60/202,912  
; PRIOR FILING DATE: 2000-05-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 35

; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Cavia porcellus  
US-09-852-455-35

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;  
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 1 GELGGP 6

RESULT 12  
US-09-852-455-36  
; Sequence 36, Application US/09852455  
; Publication No. US20030054348A1  
; GENERAL INFORMATION:  
; APPLICANT: BLUME, ARTHUR J.  
; APPLICANT: GOLDSTEIN, NEIL  
; APPLICANT: PILLUTA, RENUKA  
; APPLICANT: HSIAO, KU-CHUAN  
; APPLICANT: PRENDERGAST, JOHN  
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS  
; FILE REFERENCE: 2598-4004US1  
; CURRENT APPLICATION NUMBER: US/09/852,455  
; CURRENT FILING DATE: 2001-05-09  
; PRIOR APPLICATION NUMBER: 60/202,912  
; PRIOR FILING DATE: 2000-05-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 36  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-852-455-36

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;  
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 1 GELGGP 6

RESULT 13  
US-09-852-455-37  
; Sequence 37, Application US/09852455  
; Publication No. US20030054348A1  
; GENERAL INFORMATION:  
; APPLICANT: BLUME, ARTHUR J.  
; APPLICANT: GOLDSTEIN, NEIL  
; APPLICANT: PILLUTA, RENUKA  
; APPLICANT: HSIAO, KU-CHUAN  
; APPLICANT: PRENDERGAST, JOHN  
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS  
; FILE REFERENCE: 2598-4004US1  
; CURRENT APPLICATION NUMBER: US/09/852,455  
; CURRENT FILING DATE: 2001-05-09  
; PRIOR APPLICATION NUMBER: 60/202,912  
; PRIOR FILING DATE: 2000-05-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 37  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Canis familiaris  
US-09-852-455-37

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;

Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 1 GELGGP 6

Db 2 RPDADYGDYG 11  
Search completed: March 18, 2004, 07:27:53  
Job time : 40 secs

RESULT 14  
US-09-852-455-38  
; Sequence 38, Application US/09852455  
; Publication No. US20030054348A1  
; GENERAL INFORMATION:  
; APPLICANT: BLUME, ARTHUR J.  
; APPLICANT: GOLDSTEIN, NEIL  
; APPLICANT: PILLUTA, RENUKA  
; APPLICANT: HSIAO, KU-CHUAN  
; APPLICANT: PRENERGAST, JOHN  
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS  
; FILE REFERENCE: 2598-4004US1  
; CURRENT APPLICATION NUMBER: US/09/852,455  
; CURRENT FILING DATE: 2001-05-09  
; PRIOR APPLICATION NUMBER: 60/202,912  
; PRIOR FILING DATE: 2000-05-09  
; NUMBER OF SEQ ID NOS: 81  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 38  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Felis catus  
US-09-852-455-38

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 66.7%; Pred. No. 2.4e+03;  
Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 7 GDSGGP 12  
|: |||  
Db 1 GELGGP 6

RESULT 15  
US-09-880-748-3218  
; Sequence 3218, Application US/09880748  
; Publication No. US20030059937A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523  
; CURRENT APPLICATION NUMBER: US/09/880,748  
; CURRENT FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-15  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3218  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-880-748-3218

Query Match 35.2%; Score 25; DB 10; Length 14;  
Best Local Similarity 60.0%; Pred. No. 2.4e+03;  
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 RGDACXGDSG 10



OM protein - protein search, using sw model

Run on: March 18, 2004, 07:22:05 ; Search time 39 Seconds  
(without alignments)  
165.997 Million cell updates/sec

Title: US-09-909-348-5

Perfect score: 141

Sequence: 1 AGTRYKPDSEKRGDACEGDSGGPFV 25

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1049977 seqs, 258955339 residues

Total number of hits satisfying chosen parameters: 2971

Minimum DB seq length: 25

Maximum DB seq length: 25

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	141	100.0	25	9	US-09-909-348-5
2	141	100.0	25	9	US-09-909-122-5
3	141	100.0	25	13	US-10-050-692-5
4	38	27.0	25	15	US-10-353-522A-1
5	36	25.5	25	9	US-09-864-761-37498
6	33	23.4	25	9	US-09-864-761-43492
7	31.5	22.3	25	14	US-10-280-066-233
8	31	22.0	25	10	US-09-852-455-75
9	31	22.0	25	10	US-09-962-756-1099
10	31	22.0	25	14	US-10-133-128-205
11	31	22.0	25	14	US-10-289-660-205
12	31	22.0	25	15	US-10-253-471-1099
13	31	22.0	25	16	US-10-493-1099
14	30	21.3	25	10	US-09-933-767-598
15	30	21.3	25	13	US-10-036-869-7
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					Sequence 5, Appli
					Sequence 5, Appli
					Sequence 1, Appli
					Sequence 37498, A
					Sequence 43492, A
					Sequence 233, Appl
					Sequence 75, Appl
					Sequence 1099, Ap
					Sequence 205, App
					Sequence 205, App
					Sequence 1099, Ap
					Sequence 1099, Ap
					Sequence 598, App
					Sequence 7, Appli

Sequence 598, App  
Sequence 11, Appl  
Sequence 409, App  
Sequence 45944, A  
Sequence 255, App  
Sequence 219, App  
Sequence 23, Appl  
Sequence 3, Appli  
Sequence 256, App  
Sequence 3, Appli  
Sequence 31, Appl  
Sequence 312, App  
Sequence 314, App  
Sequence 31, Appl  
Sequence 45572, A  
Sequence 263, App  
Sequence 362, App  
Sequence 118, App  
Sequence 28, Appl  
Sequence 31, Appl  
Sequence 362, App  
Sequence 16, Appl  
Sequence 313, App  
Sequence 119, App

ALIGNMENTS

RESULT 1  
US-09-909-348-5  
; Sequence 5, Application US/09909348  
; Patent No. US20020042373A1  
; GENERAL INFORMATION:  
; APPLICANT: Garney, Darrell H.  
; APPLICANT: Growther, Roger S.  
; APPLICANT: Stierberg, Janet  
; APPLICANT: Bergmann, John  
; TITLE OF INVENTION: Stimulation Of Cartilage Growth With Agonists  
; TITLE OF INVENTION: Of The No. US20020042373A1-Proteolytically Activated Thrombin R  
; FILE REFERENCE: 3033.1003-001  
; CURRENT APPLICATION NUMBER: US/09/909,348  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,800  
; PRIOR FILING DATE: 2000-07-20  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-348-5

Query Match 100.0%; Score 141; DB 9; Length 25;

Best Local Similarity 100.0%; Pred.No. 6.2e-12; Mismatches 0; Indels 0; Gaps 0;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGTRYKPDSEKRGDACEGDSGGPFV 25

Db 1 AGTRYKPDSEKRGDACEGDSGGPFV 25

RESULT 2

US-09-909-122-5

; Sequence 5, Application US/09909122

; Patent No. US20020128202A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: Stimulation Of Bone Growth With Thrombin  
; TITLE OF INVENTION: Peptide Derivatives  
; FILE REFERENCE: 3033.1002-001  
; CURRENT APPLICATION NUMBER: US/09/909,122  
; CURRENT FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: US 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Peptide fragment of Thrombin  
US-09-909-122-5

Query Match 100.0%; Score 141; DB 9; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.2e-12;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGTRYKPDGKRGDACEGDSGGPFV 25  
Db 1 AGTRYKPDGKRGDACEGDSGGPFV 25

RESULT 3  
US-10-050-692-5  
; Sequence 5, Application US/10050692  
; Publication No. US20020182205A1  
; GENERAL INFORMATION:  
; APPLICANT: Carney, Darrell H.  
; APPLICANT: Crowther, Roger S.  
; APPLICANT: Simmons, David J.  
; APPLICANT: Yang, Jinping  
; APPLICANT: Redin, William R.  
; TITLE OF INVENTION: STIMULATION OF BONE GROWTH WITH THROMBIN  
; TITLE OF INVENTION: PEPTIDE DERIVATIVES  
; FILE REFERENCE: 3033.1002-004  
; CURRENT APPLICATION NUMBER: US/10/050,692  
; CURRENT FILING DATE: 2002-01-16  
; PRIOR APPLICATION NUMBER: 09/909,122  
; PRIOR FILING DATE: 2001-07-19  
; PRIOR APPLICATION NUMBER: 60/219,300  
; PRIOR FILING DATE: 2000-07-19  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 5  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: fragment of human prothrombin  
US-10-050-692-5

Query Match 100.0%; Score 141; DB 13; Length 25;  
Best Local Similarity 100.0%; Pred. No. 6.2e-12;  
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGTRYKPDGKRGDACEGDSGGPFV 25  
Db 1 AGTRYKPDGKRGDACEGDSGGPFV 25

RESULT 4  
US-10-353-522A-1

; Sequence 1, Application US/10353522A  
; Publication No. US20030216296A1  
; GENERAL INFORMATION:  
; APPLICANT: Welgene Pharmaceuticals, Inc.  
; APPLICANT: Park, Jong-Gu  
; APPLICANT: Moon, Ik-Jae  
; APPLICANT: Kim, Young-Cheol  
; TITLE OF INVENTION: Peptide for Increasing Transfection Efficiency  
; FILE REFERENCE: 57354-13USA  
; CURRENT APPLICATION NUMBER: US/10/353,522A  
; CURRENT FILING DATE: 2003-01-28  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: RGD-RGD-TatC-RGD-RGD  
US-10-353-522A-1

Query Match 27.0%; Score 38; DB 15; Length 25;  
Best Local Similarity 40.0%; Pred. No. 3.2e+02;  
Matches 8; Conservative 2; Mismatches 10; Indels 0; Gaps 0;

Qy 2 GTRYKPDGKRGDACEGDSG 21  
Db 5 GDRKKRQRRRPPQCRGRG 24

RESULT 5  
US-09-864-761-37498  
; Sequence 37498, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY  
; FILE REFERENCE: Aemica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670



PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 37498  
LENGTH: 25  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC011504.2  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 10  
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 9  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 10  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 8.6  
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 9.1  
OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 11  
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 8.9  
OTHER INFORMATION: EXPRESSED IN ADULT LIVES, SIGNAL = 10  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 10  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 9.5  
OTHER INFORMATION: SWISSPROT HIT: P22857, EVALUATION 1.70e+00

Query Match 25.5%; Score 36; DB 9; Length 25;  
Best Local Similarity 56.7%; Pred. No. 5.9e+02;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 15 ACGDSGGP 23  
||: ||||  
Db 11 ACQSRGGP 19

## RESULT 6

US-09-864-761-43492  
Sequence 43492, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Rank, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
FILE REFERENCE: Aescica-X-1  
CURRENT APPLICATION NUMBER: US/09/864,761  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2000-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: US 09/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263.6  
PRIOR FILING DATE: 2000-10-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00670  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-01-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
SEQ ID NO 43492  
LENGTH: 25  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AC006324.2  
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.6  
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.72  
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.8  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1  
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.75  
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.61

US-09-864-761-43492  
Query Match 23.4%; Score 33; DB 9; Length 25;  
Best Local Similarity 40.0%; Pred. No. 1.5e+03;  
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 8 DEGRKGDACGDSGG 22  
||: ||||  
Db 10 BEGMCQDEPDHNGG 24

## RESULT 7

US-10-280-066-233  
Sequence 233, Application US/10280066  
Publication No. US20030180718A1  
GENERAL INFORMATION:  
APPLICANT: Pillutla, Renuka C.  
APPLICANT: Spruyt, Michael  
APPLICANT: Dedova, Olga  
APPLICANT: Blume, Arthur J.  
APPLICANT: Prendergast, John  
APPLICANT: Goldstein, Neil I.  
TITLE OF INVENTION: TARGET SPECIFIC SCREENING AND ITS USE FOR IDENTIFYING TARGET BIN  
FILE REFERENCE: 2598-4009US1  
CURRENT APPLICATION NUMBER: US/10/280,066  
CURRENT FILING DATE: 2002-10-24  
PRIOR APPLICATION NUMBER: 60/345,471  
PRIOR FILING DATE: 2001-10-24  
NUMBER OF SEQ ID NOS: 537  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 233  
LENGTH: 25  
TYPE: PRT  
ORGANISM: Escherichia coli  
FEATURE:  
NAME/KEY: MISC FEATURE  
OTHER INFORMATION: 07902-DGI2-20M-PP-BC-CS

US-10-280-066-233

Query Match 22.3%; Score 31.5; DB 14; Length 25;  
Best Local Similarity 52.9%; Pred. No. 2.3e+03;  
Matches 9; Conservative 0; Mismatches 7; Indels 1; Gaps 1;

QY 1 ACTRYKPDGKGDACE 17

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Db      10 AGFRLVRGAGDRGD-CE 25

RESULT 8
; Sequence 75, Application US/09852455
; Publication No. US20030054348A1
; GENERAL INFORMATION:
; APPLICANT: BLUME, ARTHUR J.
; APPLICANT: GOLDSTEIN, NEIL
; APPLICANT: PILLUTA, RENUKA
; APPLICANT: HSIAO, KU-CHUAN
; APPLICANT: FRENDEGAST, JOHN
; TITLE OF INVENTION: METHODS OF IDENTIFYING THE ACTIVITY OF GENE PRODUCTS
; FILE REFERENCE: 2598-4004US1
; CURRENT APPLICATION NUMBER: US/09/852,455
; CURRENT FILING DATE: 2001-05-09
; PRIOR APPLICATION NUMBER: 60/202,912
; PRIOR FILING DATE: 2000-05-09
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 75
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-852-455-75

Query Match      22.0%; Score 31; DB 10; Length 25;
Best Local Similarity 75.0%; Pred. No. 2.7e+03;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      18 GDSGGPVE 25
      |||||
Db      2 GDSGGALV 9

RESULT 9
US-09-962-756-1099
; Sequence 1099, Application US/09962756
; Publication No. US20030195147A1
; GENERAL INFORMATION:
; APPLICANT: PILLUTA, RENUKA
; APPLICANT: BRISSETTE, RENEE
; APPLICANT: BLUME, ARTHUR J.
; APPLICANT: SCHAEFER, LAUGE
; APPLICANT: BRANDT, JAKOB
; APPLICANT: GOLDSTEIN, NEIL I.
; APPLICANT: SPETZLER, JANE
; APPLICANT: OSTERGAARD, SOREN
; APPLICANT: HANSEN, PER HERTZ
; TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
; FILE REFERENCE: 1878-4051US1
; CURRENT APPLICATION NUMBER: US/09/962,756
; CURRENT FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/538,038
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 09/146,127
; PRIOR FILING DATE: 1998-09-02
; NUMBER OF SEQ ID NOS: 2227
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 1099
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: MOD_RES
; LOCATION: (13)
; OTHER INFORMATION: Unknown amino acid; translation read-through at
; OTHER INFORMATION: TGA stop codon
```

```
US-09-962-756-1099

Query Match      22.0%; Score 31; DB 10; Length 25;
Best Local Similarity 57.1%; Pred. No. 2.7e+03;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY      18 GDSGGPF 24
      |||||
Db      16 GEAGGPY 22

RESULT 10
US-10-133-128-205
; Sequence 205, Application US/10133128
; Publication No. US20030082630A1
; GENERAL INFORMATION:
; APPLICANT: KOLKMAN, JOOST A.
; APPLICANT: STEMMER, WILLEM P.C.
; TITLE OF INVENTION: COMBINATORIAL LIBRARIES OF MONOMER DOMAINS
; FILE REFERENCE: 0319.410US
; CURRENT APPLICATION NUMBER: US/10/133,128
; CURRENT FILING DATE: 2002-04-26
; PRIOR APPLICATION NUMBER: 60/374,107
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/333,359
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: 60/337,209
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/286,823
; PRIOR FILING DATE: 2001-04-26
; NUMBER OF SEQ ID NOS: 244
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 205
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide linker
; NAME/KEY: misc_feature
; LOCATION: (1)..(12)
; OTHER INFORMATION: This region may vary in length from 1-12 residues,
; OTHER INFORMATION: 3-9 residues, 4-8 residues or 4-7 residues
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (14)..(25)
; OTHER INFORMATION: This region may vary in length from 1-12 residues,
; OTHER INFORMATION: 3-9 residues, 4-8 residues or 4-7 residues
US-10-133-128-205

Query Match      22.0%; Score 31; DB 14; Length 25;
Best Local Similarity 46.2%; Pred. No. 2.7e+03;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      10 GKRGDACEGDSGG 22
      |||||
Db      7 GGGGGCGGGGGG 19

RESULT 11
US-10-289-660-205
; Sequence 205, Application US/10289660
; Publication No. US20030157561A1
; GENERAL INFORMATION:
; APPLICANT: KOLKMAN, JOOST A.
; APPLICANT: STEMMER, WILLEM P.C.
; APPLICANT: GOVINDARAJAN, SRIDHAR
; TITLE OF INVENTION: COMBINATORIAL LIBRARIES OF MONOMER DOMAINS
; FILE REFERENCE: 0319.510US
; CURRENT APPLICATION NUMBER: US/10/289,660
; CURRENT FILING DATE: 2003-11-06
; PRIOR APPLICATION NUMBER: 10/133,128
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; PRIOR FILING DATE: 2002-04-26
; PRIOR APPLICATION NUMBER: 60/374,107
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/333,359
; PRIOR FILING DATE: 2001-11-26
; PRIOR APPLICATION NUMBER: 60/337,209
; PRIOR FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/286,823
; PRIOR FILING DATE: 2001-04-26
; NUMBER OF SEQ ID NOS: 244
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 205
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide linker
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(12)
; OTHER INFORMATION: This region may vary in length from 1-12 residues,
; OTHER INFORMATION: 3-9 residues, 4-8 residues or 4-7 residues
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (14)..(25)
; OTHER INFORMATION: This region may vary in length from 1-12 residues,
; OTHER INFORMATION: 3-9 residues, 4-8 residues or 4-7 residues
; US-10-289-660-205

Query Match 22.0%; Score 31; DB 14; Length 25;
Best Local Similarity 46.2%; Pred.No. 2.7e+03;
Matches 6; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 10 GKGCACEGDSGG 22
Db 7 GGGGGCGGGGGG 19

RESULT 12
US-10-253-471-1099
; Sequence 1099, Application US/10253471
; Publication No. US20030236190A1
; GENERAL INFORMATION:
; APPLICANT: PILULITLA, RENUKA et al.
; TITLE OF INVENTION: INSULIN AND IGF-1 RECEPTOR AGONISTS AND ANTAGONISTS
; FILE REFERENCE: 1878-4057
; CURRENT APPLICATION NUMBER: US/10/253,471
; CURRENT FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: 09/962,756
; PRIOR FILING DATE: 2001-09-24
; PRIOR APPLICATION NUMBER: 09/538,038
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 09/146,127
; PRIOR FILING DATE: 1998-09-02
; NUMBER OF SEQ ID NOS: 2227
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1099
; LENGTH: 25
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: peptide
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (13)
; OTHER INFORMATION: Unknown amino acid; translation read-through at
; OTHER INFORMATION: TGA stop codon
; US-10-253-471-1099

Query Match 22.0%; Score 31; DB 15; Length 25;
Best Local Similarity 57.1%; Pred.No. 2.7e+03;

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; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,880  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,886  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,020  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,876  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,895  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,884  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,894  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,971  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,964  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,882  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,899  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,893  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,900  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,901  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,892  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,915  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,019  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,970  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,972  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,916  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,373  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,875  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/049,374  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,917  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,949  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,974  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,883  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,897  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,898  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,962  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,963  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,877  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/048,878  
; PRIOR FILING DATE: 1997-06-06  
; PRIOR APPLICATION NUMBER: 60/068,054  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/068,064  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/068,053  
; PRIOR FILING DATE: 1997-12-18

; PRIOR APPLICATION NUMBER: 60/070,923  
; PRIOR FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: 60/073,160  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,159  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,165  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/073,164  
; PRIOR FILING DATE: 1998-01-30  
; PRIOR APPLICATION NUMBER: 60/085,925  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,921  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,923  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/085,922  
; PRIOR FILING DATE: 1998-05-18  
; PRIOR APPLICATION NUMBER: 60/092,921  
; PRIOR FILING DATE: 1998-07-15  
; PRIOR APPLICATION NUMBER: 60/094,657  
; PRIOR FILING DATE: 1998-07-30  
; NUMBER OF SEQ ID NOS: 1245  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 598  
; LENGTH: 25  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-933-767-598

Query Match 21.3%; Score 30; DB 10; Length 25;  
Best Local Similarity 42.9%; Pred. No. 3.7e+03;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 9 EGKRGDACEGDSGG 22  
|||: ||: |  
Db 4 EGKRRKACKNCTCG 17

## RESULT 15

US-10-036-869-7  
; Sequence 7, Application US/10036869  
; Publication No. US20020151516A1  
; GENERAL INFORMATION:

APPLICANT: Milson, James A

TITLE OF INVENTION: CARRIER:DNA COMPLEXES CONTAINING DNA  
ENCODING ANTI-ANGIOGENIC PEPTIDES AND THEIR USE IN GENE  
THERAPY

NUMBER OF SEQUENCES: 43

CORRESPONDENCE ADDRESS:

ADDRESSEE: Connolly, Bove, Lodge, & Hutz  
STREET: 1220 Market Street, P.O. Box 2207  
CITY: Wilmington  
STATE: Delaware  
COUNTRY: U.S.A.  
ZIP: 19899

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/036,869  
FILING DATE: 29-No. US20020151516A1-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/985,526  
FILING DATE: <Unknown>  
APPLICATION NUMBER: US 08/608,845  
FILING DATE: 16-JUL-1996

ATTORNEY/AGENT INFORMATION:

NAME: McMorow Jr., Robert G

TELECOMMUNICATION INFORMATION:

; TELEPHONE: (302) 658-9141  
 ; TELEFAX: (302) 658-5613  
 ; INFORMATION FOR SEQ ID NO: 7:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 25 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
 US-10-036-869-7

Query Match 21.3%; Score 30; DB 13; Length 25;  
 Best Local Similarity 40.0%; Pred. No. 3.7e+03;  
 Matches 8; Conservative 2; Mismatches 10; Indels 0; Gaps 0;

Qy 2 GTRYKPDGKRGDACEGDSG 21  
 | : | | | : | |  
 Db 4 GSRGKSYIGSRGKSYIGSRG 23

Search completed: March 18, 2004, 07:28:45  
 Job time : 40 secs

